

TIMKEN

REDUCE MAINTENANCE TIME

Significantly quicker and easier bearing removal and installation

ACHIEVE GREATER ACCURACY

Smooth controllable forces enable precise bearing positioning

IMPROVE BEARING PERFORMANCE

Better control of bearing internal clearance reduction for a correct fit

WIDE RANGE OF SIZES

The capacity to cover most installation needs from 50 mm to 1180 mm shaft diameter

OTHER FEATURES

Dial indicator hole on the front face for mounting with dial indicator

Delivered with a G 1/4" male quick connect nipple



TIMKEN® HMV / HMVC HYDRAULIC NUTS

QUICK AND ACCURATE REMOVAL AND INSTALLATION OF TAPERED BORE BEARINGS

From pulp and paper applications to rolling mills, mining equipment and beyond – hydraulic nuts are designed to make the removal and installation of tapered bore bearings quicker, easier and more accurate.

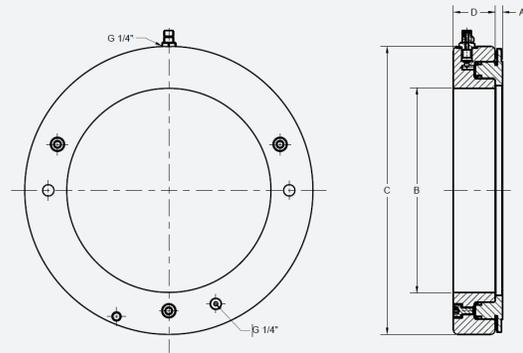
The hydraulic method of mounting tapered bore spherical roller bearings is significantly faster than traditional mounting methods, such as using feeler gauges. This method helps ensure a correct fit – leading to more reliable bearing performance.

The pressure generated by the piston creates a smooth, controllable force to enable precise positioning of a bearing on a shaft. Hydraulic nuts provide better control of bearing internal clearance reduction, while reducing the chance of damaging a bearing or other components.

Timken hydraulic nuts feature black oxide coating to increase corrosion and wear resistance.

HMV

PART NUMBER SPECIFICATIONS



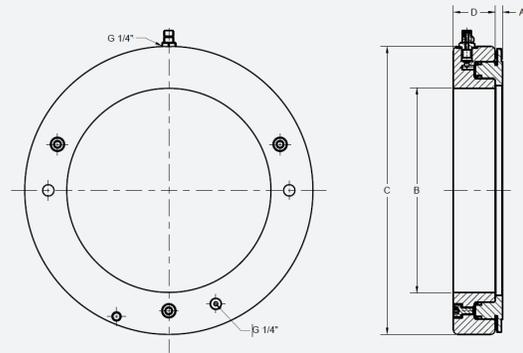
PART NUMBER	THREADS	DIMENSIONS			PISTON TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
		C	D	A			
	B	mm	mm	mm	mm	mm ²	kg
HMV-10	M 50 X 1.5	114	38	4	5	2900	2.5
HMV-12	M 60 X 2	125	38	5	5	3200	2.8
HMV-13	M 65 X 2	135	38	5	5	3500	3.0
HMV-14	M 70 X 2	140	38	5	5	3900	3.3
HMV-15	M 75 X 2	145	38	5	5	4100	3.5
HMV-16	M 80 X 2	150	38	5	5	4200	3.8
HMV-17	M 85 X 2	155	38	5	5	4400	3.9
HMV-18	M 90 X 2	160	38	5	5	4800	4.1
HMV-19	M 95 X 2	165	38	5	5	5000	4.4
HMV-20	M 100 X 2	170	38	6	5	5200	4.5
HMV-21	M 105 X 2	175	38	6	5	5400	5.4
HMV-22	M 110 X 2	180	38	6	5	5700	5.7
HMV-23	M 115 X 2	185	38	6	5	5900	5.1
HMV-24	M 120 X 2	190	38	6	5	6100	5.3
HMV-25	M 125 X 2	195	38	6	5	6300	5.4
HMV-26	M 130 X 2	200	38	6	5	6500	5.7
HMV-27	M 135 X 2	205	38	6	5	6700	5.9
HMV-28	M 140 X 2	210	38	7	5	6900	6.1
HMV-29	M 145 X 2	215	39	7	5	7300	6.5
HMV-30	M 150 X 2	220	39	7	5	7500	6.6
HMV-31	M 155 X 3	225	39	7	5	8100	6.9
HMV-32	M 160 X 3	235	40	7	6	8600	7.7
HMV-33	M 165 X 3	240	40	7	6	9000	8.0

HMV-10 through HMV-40 have a Metric ISO fine-thread profile.
 HMV-41 through HMV-236 have a Metric ISO trapezoidal thread.

HMV

PART NUMBER SPECIFICATIONS

continued



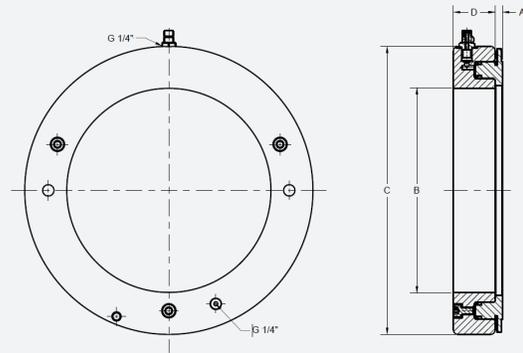
PART NUMBER	THREADS	DIMENSIONS			PISTON TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
		C	D	A			
	B	mm	mm	mm	mm	mm ²	kg
HMV-34	M 170 X 3	245	41	7	6	9500	8.4
HMV-36	M 180 X 3	255	41	7	6	10300	9.1
HMV-38	M 190 X 3	270	42	8	7	11500	10.8
HMV-40	M 200 X 3	280	43	8	8	12500	11.4
HMV-41	Tr 205 X 4	290	43	8	8	12900	12.2
HMV-42	Tr 210 X 4	295	44	8	9	13500	12.5
HMV-43	Tr 215 X 4	300	44	8	9	13800	13.0
HMV-44	Tr 220 X 4	305	44	8	9	14400	13.4
HMV-45	Tr 225 X 4	315	45	8	9	15200	14.6
HMV-46	Tr 230 X 4	320	45	8	9	15600	14.8
HMV-47	Tr 235 X 4	325	46	8	10	16200	16.0
HMV-48	Tr 240 X 4	330	46	9	10	16500	16.3
HMV-50	Tr 250 X 4	345	46	9	10	17800	17.6
HMV-52	Tr 260 X 4	355	47	9	11	18800	19.0
HMV-54	Tr 270 X 4	370	48	9	12	19700	20.4
HMV-56	Tr 280 X 4	380	49	9	12	21100	22.0
HMV-58	Tr 290 X 4	390	49	9	13	22600	22.5
HMV-60	Tr 300 X 4	405	51	10	14	23600	25.6
HMV-62	Tr 310 X 5	415	52	10	14	24900	27.0
HMV-64	Tr 320 X 5	430	53	10	14	26300	29.6
HMV-66	Tr 330 X 5	440	53	10	14	27000	31.0
HMV-68	Tr 340 X 5	450	53	10	14	28400	32.5
HMV-69	Tr 345 X 5	455	54	10	14	29400	33.6

HMV-10 through HMV-40 have a Metric ISO fine-thread profile.
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HMV

PART NUMBER SPECIFICATIONS

continued



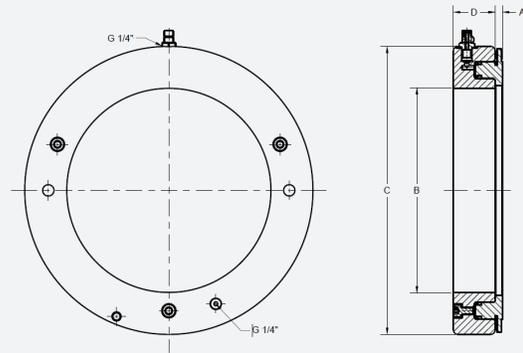
PART NUMBER	THREADS	DIMENSIONS			PISTON TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
		C	D	A			
	B	mm	mm	mm	mm	mm ²	kg
HMV-70	Tr 350 X 5	465	56	10	14	30000	35.0
HMV-72	Tr 360 X 5	475	56	10	15	31300	37.0
HMV-73	Tr 365 X 5	482	57	11	15	31700	38.5
HMV-74	Tr 370 X 5	490	57	11	16	32800	39.2
HMV-76	Tr 380 X 5	500	58	11	16	33600	41.0
HMV-77	Tr 385 X 5	505	58	11	16	34700	42.0
HMV-80	Tr 400 X 5	525	60	11	17	36700	46.0
HMV-82	Tr 410 X 5	535	61	11	17	38300	48.2
HMV-84	Tr 420 X 5	545	61	11	17	40000	50.4
HMV-86	Tr 430 X 5	555	62	11	17	40800	53.0
HMV-88	Tr 440 X 5	565	62	12	17	42500	55.0
HMV-90	Tr 450 X 5	580	64	12	17	44100	58.2
HMV-92	Tr 460 X 5	590	64	12	17	45000	61.0
HMV-94	Tr 470 X 5	600	65	12	18	46900	63.7
HMV-96	Tr 480 X 5	612	65	12	19	48500	65.0
HMV-98	Tr 490 X 5	625	66	12	19	49800	69.0
HMV-100	Tr 500 X 5	635	67	12	19	52000	71.5
HMV-102	Tr 510 X 6	645	68	12	20	53300	75.0
HMV-104	Tr 520 X 6	657	68	13	20	54200	77.0
HMV-106	Tr 530 X 6	670	69	13	21	56200	80.0
HMV-108	Tr 540 X 6	680	69	13	21	58200	83.0
HMV-110	Tr 550 X 6	692	70	13	21	59200	86.0
HMV-112	Tr 560 X 8	705	71	13	22	61200	90.0

HMV-10 through HMV-40 have a Metric ISO fine-thread profile.
HMV-41 through HMV-236 have a Metric ISO trapezoidal thread.

HMV

PART NUMBER SPECIFICATIONS

continued

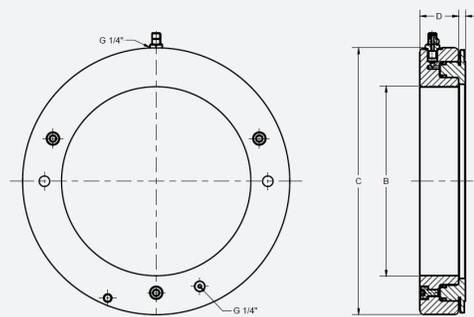


PART NUMBER	THREADS	DIMENSIONS			PISTON TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
		C	D	A			
	B	mm	mm	mm	mm	mm ²	kg
HMV-114	Tr 570 X 6	715	72	13	23	63200	93.0
HMV-116	Tr 580 X 6	725	72	13	23	64200	96.0
HMV-120	Tr 600 X 6	750	73	13	23	67400	100.0
HMV-126	Tr 630 X 6	780	74	14	23	72900	110.0
HMV-130	Tr 650 X 6	805	75	14	23	76200	116.0
HMV-134	Tr 670 X 6	825	76	14	24	79500	123.0
HMV-138	Tr 690 X 6	850	77	14	25	84200	130.0
HMV-142	Tr 710 X 7	870	78	15	25	87700	137.0
HMV-146	Tr 730 X 7	885	79	15	25	90000	143.0
HMV-150	Tr 750 X 7	915	79	15	25	97000	150.0
HMV-160	Tr 800 X 7	970	80	16	25	104000	173.0
HMV-170	Tr 850 X 7	1020	83	16	26	114600	190.0
HMV-180	Tr 900 X 7	1070	86	17	30	124000	210.0
HMV-190	Tr 950 X 8	1125	86	17	30	135600	238.0
HMV-200	Tr 1000 X 8	1180	88	17	34	145600	263.0
HMV-212	Tr 1060 X 8	1255	95	18	34	161200	325.0
HMV-216	Tr 1080 X 8	1280	100	18	34	167400	345.0
HMV-224	Tr 1120 X 8	1340	106	19	36	178200	410.0
HMV-236	Tr 1180 X 8	1420	115	22	40	189200	530.0

HMV-10 through HMV-40 have a Metric ISO fine-thread profile.
 HMV-41 through HMV-236 have a Metric ISO trapezoidal thread.

HMVC

PART NUMBER SPECIFICATIONS



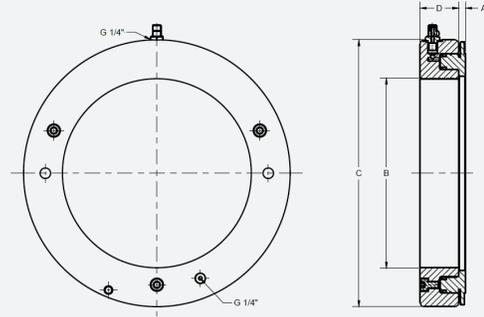
PART NUMBER	MAJOR DIA. B	THREADS NO. PER INCH	DIMENSIONS			PISTON LENGTH OF TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
			C	D	A			
			in.	in.	in.			
HMVC-10	1.967	18	4.488	1.496	0.157	0.197	4.5	5.5
HMVC-12	2.360	18	4.921	1.496	0.197	0.197	5.0	6.2
HMVC-13	2.548	18	5.315	1.496	0.197	0.197	5.4	6.6
HMVC-14	2.751	18	5.512	1.496	0.197	0.197	6.0	7.3
HMVC-15	2.933	12	5.709	1.496	0.197	0.197	6.3	7.7
HMVC-16	3.137	12	5.906	1.496	0.197	0.197	6.5	8.4
HMVC-17	3.340	12	6.102	1.496	0.197	0.197	6.8	8.6
HMVC-18	3.527	12	6.299	1.496	0.197	0.197	7.4	9.0
HMVC-19	3.730	12	6.496	1.496	0.197	0.197	7.7	9.7
HMVC-20	3.918	12	6.693	1.496	0.236	0.197	8.1	10.0
HMVC-22	4.325	12	7.087	1.496	0.236	0.197	8.8	12.5
HMVC-24	4.716	12	7.480	1.496	0.236	0.197	9.5	11.7
HMVC-26	5.106	12	7.874	1.496	0.236	0.197	10.1	12.5
HMVC-28	5.497	12	8.268	1.496	0.276	0.197	10.7	13.4
HMVC-30	5.888	12	8.661	1.535	0.276	0.197	11.6	14.5
HMVC-32	6.284	8	9.252	1.575	0.276	0.236	13.3	17.0
HMVC-34	6.659	8	9.645	1.614	0.276	0.236	14.7	18.5
HMVC-36	7.066	8	10.039	1.615	0.276	0.236	16.0	20.0
HMVC-38	7.472	8	10.630	1.653	0.315	0.276	17.8	23.1

HMVC-10 through HMVC-64 have American National Threads Class 3.
 HMVC-68 through HMVC-190 have Acme General Purpose Threads Class 3G.

HMVC

PART NUMBER SPECIFICATIONS

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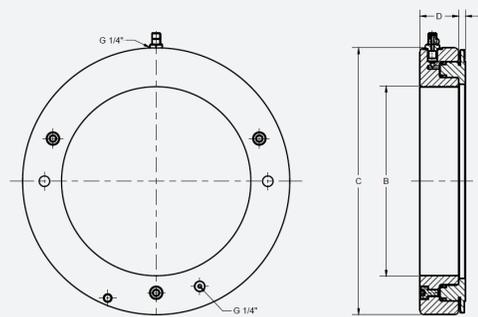
PART NUMBER	MAJOR DIA. B	THREADS NO. PER INCH	DIMENSIONS			PISTON LENGTH OF TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
			C	D	A			
			in.	in.	in.			
HMVC-40	7.847	8	11.024	1.693	0.315	0.276	19.4	25.1
HMVC-44	8.628	8	12.008	1.732	0.315	0.354	22.3	29.5
HMVC-48	9.442	6	12.992	1.811	0.354	0.394	25.6	35.9
HMVC-52	10.192	6	13.976	1.850	0.354	0.433	29.1	41.8
HMVC-56	11.004	6	14.961	1.929	0.354	0.472	32.7	48.4
HMVC-60	11.785	6	15.945	2.008	0.394	0.551	36.6	56.3
HMVC-64	12.562	6	16.929	2.087	0.394	0.551	40.8	65.1
HMVC-68	13.334	5	17.717	2.087	0.394	0.551	44.0	71.5
HMVC-72	14.170	5	18.701	2.205	0.394	0.590	48.5	81.4
HMVC-76	14.957	5	19.685	2.283	0.433	0.630	52.1	90.2
HMVC-80	15.745	5	20.669	2.362	0.433	0.669	56.9	101.2
HMVC-84	16.532	5	21.457	2.401	0.433	0.669	62.0	110.9
HMVC-88	17.319	5	22.244	2.441	0.472	0.669	65.9	121.0
HMVC-92	18.107	5	23.228	2.520	0.472	0.669	69.8	134.2
HMVC-96	18.894	5	24.094	2.559	0.472	0.748	75.2	143.0
HMVC-100	19.682	5	25.000	2.598	0.472	0.748	80.6	157.3
HMVC-106	20.867	4	26.378	2.716	0.512	0.827	87.1	176.0
HMVC-112	22.048	4	27.756	2.795	0.512	0.866	94.9	198.0
HMVC-120	23.623	4	29.528	2.874	0.512	0.905	104.5	220.0

HMVC-10 through HMVC-64 have American National Threads Class 3.
 HMVC-68 through HMVC-190 have Acme General Purpose Threads Class 3G.

HMVC

PART NUMBER SPECIFICATIONS

continued



PART NUMBER	MAJOR DIA. B	THREADS NO. PER INCH	DIMENSIONS			PISTON LENGTH OF TRAVEL	PISTON AREA	ASSEMBLY WEIGHT
			C	D	A			
			in.	in.	in.			
HMVC-126	24.804	4	30.709	2.913	0.551	0.905	113.0	242.0
HMVC-134	26.379	4	32.480	2.992	0.551	0.945	123.2	270.6
HMVC-142	27.961	3	34.252	3.071	0.590	0.984	135.9	301.4
HMVC-150	29.536	3	36.024	3.110	0.590	0.984	150.4	330.0
HMVC-160	31.504	3	38.189	3.150	0.630	0.984	161.2	380.6
HMVC-170	33.473	3	40.157	3.268	0.630	1.024	177.6	418.0
HMVC-180	35.441	3	42.126	3.386	0.669	1.181	192.2	462.0
HMVC-190	37.410	3	44.291	3.386	0.669	1.181	210.2	523.6

HMVC-68 through HMVC-190 have Acme General Purpose Threads Class 3G.

TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

Stronger. By Design.

www.timken.com