



ABYT, ABYT-V

Spherical Bearings - Self-Lubricating High Misalignment

Temperature: Operating temperature range -65° to 250°F (-54° to 121°C). Broader temperature capabilities are achievable.

Options: Bearings with CRES 17-4PH races will be designated by "H" suffix.
(Example: ABYT8VH)

Qualification: Liner approved to MIL-B-8942

MATERIALS

Part No.	Ball	Race	Liner
Catalog No.	CRES 440C AMS 5630, 55-62 HRC	CRES 410 AMS 5613, 23-35 HRC	*Teflon/Fabric Bonded to race I.D. No. Lub. Required

NMB Part Number Chamfered V-Grooved	(B) Bore Diameter		(D) Outside Diameter		(W) Ball Width		(H) Race Width		(O) Shoulder Diameter		Ball Diameter		(C) Race Chamfered × 45°		(Q) Misalign- ment	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm		
	+0.0000	+0.000	+0.0000	+0.000	+0.000	+0.00	+0.005	+0.13	+0.005	+0.13	Ref.	Ref.	Ref.	Ref.	+0.000	+0.00
ABYT3	ABYT3V	.1900	4.826	.5625	14.288	.500	12.70	0.210	5.33	.319	8.10	.437	11.10	.020	0.51	15°
ABYT4	ABYT4V	.2500	6.350	.7400	18.796	.593	15.06	0.255	6.48	.390	9.91	.593	15.06	.022	0.56	24°
ABYT5	ABYT5V	.3125	7.938	.6875	17.462	.625	15.88	0.255	6.48	.418	10.62	.593	15.06	.022	0.56	20°
ABYT6	ABYT6V	.3750	9.525	.9060	23.012	.813	20.65	0.345	8.76	.512	13.00	.781	19.84	.032	0.81	23°
ABYT7	ABYT7V	.4375	11.112	1.0000	25.400	.875	22.22	0.345	8.76	.618	15.70	.875	22.22	.032	0.81	22°
ABYT8	ABYT8V	.5000	12.700	1.1250	28.575	.937	23.80	0.401	10.19	.730	18.54	1.000	25.40	.032	0.81	20°
ABYT10	ABYT10V	.6250	15.875	1.3750	34.925	1.200	30.48	0.567	14.40	.856	21.74	1.250	31.75	.032	0.81	20°
ABYT12	ABYT12V	.7500	19.050	1.5625	39.688	1.280	32.51	0.620	15.75	.970	24.64	1.375	34.92	.044	1.12	18°
ABYT14	ABYT14V	.8750	22.225	1.7500	44.450	1.400	35.56	0.625	15.88	1.140	28.96	1.531	38.89	.044	1.12	18°
ABYT16	ABYT16V	1.0000	25.400	2.1250	53.975	1.875	47.62	0.835	21.21	1.278	32.46	1.875	47.62	.044	1.12	21°
ABYT20	ABYT20V	1.2500	31.750	2.5000	63.500	1.875	47.62	1.005	25.53	1.523	38.68	2.250	57.15	.044	1.12	21°
ABYT24	ABYT24V	1.5000	38.100	3.0000	76.200	2.250	57.15	1.175	29.84	1.800	45.72	2.672	67.87	.044	1.12	21°

* A trade name of E.I. duPont de Nemours & Co., Inc.

#The load ratings listed for this series of bearings do not take into account pin deflection. Excess pin deflection can cause a crack to traverse the ball sphere. (See page 24).