

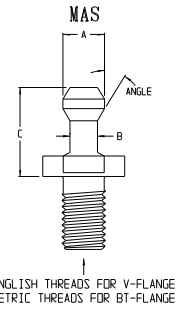
NOTE: STANDARD RETENTION KNOBS FOR 40 TAPER SPINDLES WITHOUT CTS

MAS RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4833	59.39		1.27	60°	RH19, RH20, RH30, RH33, RH35, RW15, RW20E, BR50, BR60, BR80 VM15, VM16, VM20, VM22, VM25, VM30, VMC15, VMC16, VMC20, VMC25, VMC30, MM18	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4E-0002	RK31114A	PT-532-60	C40-6000

MAS RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4834	59.39		1.38	60°	RH19, RH20, RH30, RH33, RH35, RW15, RW20E, BR50, BR60, BR80 VM15, VM16, VM20, VM22, VM25, VM30, VMC15, VMC16, VMC20, VMC25, VMC30, MM18	RH20, RH30, RH33, RH35, BR50, BR60, BR80, VM16, VM20, VM22, VM25, VM30, VMC16, VMC20, VMC25, VMC30, TT24, TT40, HMC20, HMC35		RB4M-0002	RK31113A	PT-444-60	B40-6000



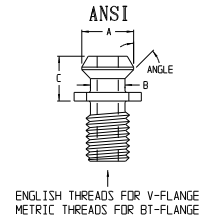
NOTE: STANDARD RETENTION KNOBS FOR 40 TAPER SPINDLES WITH CTS

ANSI RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4836	74.49		.64	45°	SELECTION NOT AVAILABLE			RC4E-0001	RK11122	PT-475C	C40-STD

ANSI RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4837	74.49		.75	45°	SELECTION NOT AVAILABLE			RS4M-0115	RK1126A	N/A	B40-FADAL



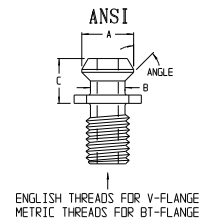
NOTE: STANDARD RETENTION KNOBS FOR 50 TAPER SPINDLES WITH OR WITHOUT CTS

ANSI RETENTION KNOBS STYLE CT-FLANGE 50 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
N/A	1.14	.83	1.00	45°	VM22XP, VM25XP, VM30XP, RH33XP, RH35XP, HMC70			RC6E-0001	DWG RK11144	N/A	C50-STD

ANSI RETENTION KNOBS STYLE BT-FLANGE 50 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
N/A	1.14	.83	1.00	45°	VM22XP, VM25XP, VM30XP, RH33XP, RH35XP, HMC70			RS6M-0105	DWG RK11144A	N/A	N/A



NOTE: OPTIONAL RETENTION KNOBS FOR 40 TAPER SPINDLES

MAS RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4831	59.39		1.27	45°	SELECTION NOT AVAILABLE			RB4E-0001	RK31114	PT-532-45	C40-4500

MAS RETENTION KNOBS STYLE BT-FLANGE 40 TAPER

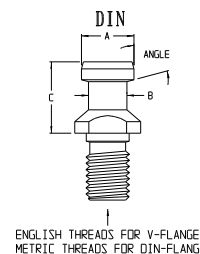
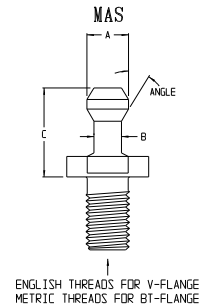
ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4832	59.39		1.38	45°	SELECTION NOT AVAILABLE			RB4M-0001	RK31113	PT-444-45	B40-4500

DIN 69872 RETENTION KNOBS STYLE CT-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4838	75.55		1.02	75°	SELECTION NOT AVAILABLE			RS4E-0114-C	DWG RK71125	N/A	C40-1500

DIN 69872 RETENTION KNOBS STYLE DIN-FLANGE 40 TAPER

ASSEMBLY SELECTION	DIMENSIONS			ANGLE	MILLTRONICS		MACHINE	COMMAND PART No.	KENNAMETAL PART No.	VALENITE PART No.	LYNDEX PART No.
	A	B	C		60mm SPINDLE	70mm SPINDLE					
4839	75.55		1.02	75°	SELECTION NOT AVAILABLE			RS4M-0114-C	DWG RK71124	N/A	B40-1500



- NOTES: 1. FOR SPINDLES OF 8000 RPM AND GREATER YOU MUST USE BALANCED TOOLING TO A G2.5 SPEC. OR IT WILL VOID THE SPINDLE WARRANTY.
2. CHART IS GOOD FOR ALL MACHINE VERSIONS LISTED FROM ECO DATE REV. G ON THIS DRAWING.

H	ADD VM22XP, RH33XP FRAMES TO 50 TAPER	6715		01/09
G	ADD MM18 AND MOVE HMC70 FRAMES TO 50 TAPER	6193	N.M.	10/06
F	ADD VMC, TT, AND HMC FRAMES	6175	N.M.	09/06
E	UPDATE CHART	5992	N.M.	08/05
D	ADD RH/RW12 & RH19	5146	N.M.	09/01
C	ADD RETENTION KNOBS TO CHART	4859	N.M.	12/00
B	CHANGE 70mm BT-FLANGE CHART	4730	N.M.	10/00
A	ADD LYNDEX CORP. IN CHART	4351	N.M.	1/00
REV.	DESCRIPTION	E.C.O. NO.	APP'D BY	DATE
		TITLE: RETENTION KNOB CHART APPLICATION: GENERAL PRODUCTS		SCALE: 1.75:1 DWG No.: 6-11-018-054 DATE: 30 APR 99 DRAWN BY: DAHLKE
				SIZE: B SHEET NO.: 1 OF 1