

Control Knobs

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Collet Knobs, Push-on Knobs, Slider Knobs, Pushbuttons and Accessories



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SIFAM offers a wide variety of collet knobs, pushon knobs, slider knobs, pushbuttons and accessories. Together with our printing options and custom moulding service, we can provide an infinite number of permutations suitable for almost any application.

KNOBS PUSHBUTTONS AND ACCESSORIES

Add a touch of quality to your product

Our control knobs are manufactured in a wide range of thermoplastic materials and have function, style and handling as principle design factors. The quality 'feel' is unmistakable and so adds to the quality of your product. This catalogue shows in detail the standard range of types, sizes and colours for our collet knobs, push-on knobs, slider knobs, pushbuttons, associated caps and accessories. All ordering codes and dimensional information are included for fast and easy product selection.

Custom service for specific requirements

If your product calls for a personal touch, we can cater for most control knob requirements from design through to manufacture using the latest technology, including 3D CAD and multi-shot moulding. You are guaranteed expert attention throughout the process. Function and styling criteria for all components can be customised. Should your product require a standard combination from the existing range or a custom designed control knob, the item can also be printed to meet your specific application. The flexibility of the range and the varying levels of customisation make SIFAM the number one manufacturer of control knobs.

Quality assured

Through our continuous efforts for ever better products and service to the customer, we have earned many quality endorsements. Our Quality Management System is assessed to BS EN ISO 9001.

Now is a good time to turn to quality - SIFAM quality!













29mm K290 K291 Base Ø29.5mmHeight (inc. cap)22.3mmShaft Depth15.0mm Shaft size Plain With line K290 003 K290 125 K290 004 K290 006 K290 250 K291 003 K291 125 K291 004 K291 006 K291 250 3mm ¹/₈ in 4mm 6mm ¹/₄ in

SB151, SB211, SB291

These can be supplied with line printing on both wings. To specify, replace last digit '1' with '3'. eg: SB153

Ordering procedure

Please remember to quote the appropriate Collet knobs and accessory part number for each item according to type, size and plain or with line requirements. Please also state the colour required when ordering. Available colours are referred to on Page 9.

Packaging

Collet knobs and accessories are packed, as standard, in multiples of ten. For orders over one hundred pieces, items may be packed in bulk and quantity discounts are available.

Two colour soft touch collets





9

7

part numbers Accessories

Please refer to Page 9 for available colours

	Caps			
		•		\bigcirc
	Plain	With line	With Spot	Finger Recess
10mm	C100	C101	C102	
11mm	C110	C111	C112	
13mm	C130	C131	C132	
15mm	C150	C151	C152	
21mm	C210	C211	C212	
29mm	C290	C291	C292	
38mm	C380	C381	C382	CF380
47mm	C470	C471	C472	CF470

	Nut covers*			Point Not applic SP, SB, SW	able to types	Stato	Stators*			
	O Plain	With		Q	æ	Adhesive	Backed			
10mm				P100	R = 7.0mm					
11mm	N110	N111	Ø = 14.0mm	P110	R = 8.0mm	R110	Ø = 23.0mm			
13mm	N130	N131	Ø = 17.5mm	P130	R = 9.5mm	R130	Ø = 26.0mm			
15mm	N150	N151	Ø = 18.5mm	P150	R = 10.5mm	R150	Ø = 28.2mm			
21mm				P210	R = 14.0mm	R210	Ø = 36.0mm			
29mm				P290	R = 19.0mm	R290	Ø = 46.2mm			
38mm				P380	R = 24.0mm	R380	Ø = 56.0mm			

		Figure Dials* Markings other than those shown are available to special order									
	\bigcirc	$\begin{pmatrix} 1 & 0 & 0 & 0 \\ & & & & \\ & & & & \\ & & & &$	$\begin{pmatrix} y_{1} \\ y_{2} \\ y_{3} \\ y_{1} \\ y_{2} \\ y_{3} \\ y_$	$\begin{pmatrix} & 0 \\ & & 0 \\ & & & 0 \\ & & & & 0 \\ & & & &$	$\begin{pmatrix} 1 & 0 & 0 \\ r_{1} & 0 & 0 \\ r_{2} & 0 & 0 \\ s_{2} & 0 & 0 \\ s_{3} & 0 & 0 \\ s_{3} & 0 & 0 \\ s_{3} & s_{3} & 0 \\ s_{3} & s_{3} & s_{3} \\ s_{3} & s_$			\bigcirc	0	Ø	
	Plain	0-11/30°	1-12/30°	0-9/36°	1-10/36°	0-5/60°	1-6/60°	300°	Single W Arrow	hite	
10mm											
11mm	D110	D111	D112	D113	D114	D115	D116	D118	D119	Ø = 24.0mm	
13mm	D130	D131	D132	D133	D134	D135	D136	D138	D139	Ø = 27.0mm	
15mm	D150	D151	D152	D153	D154	D155	D156	D158	D159	Ø = 29.0mm	
21mm	D210	D211	D212	D213	D214	D215	D216	D218	D219	Ø = 37.0mm	
29mm	D290	D291	D292	D293	D294	D295	D296	D298	D299	Ø = 47.0mm	
38mm	D380	D381	D382	D383	D384	D385	D386	D388	D389	Ø = 57.0mm	

* Cannot be used with soft-touch collet knobs.

Tools

Tools are available for tightening the slotted collars in 10, 11, 13 and 15mm knobs.



Timeless 'classics'

Function, styling, handling and simplicity of use are the hallmarks of these quality control knobs.

Collet Knobs

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The main criteria in the design of collet knobs and accessories have always been function, styling, handling and simplicity of use. Accessories, including caps, pointers, figure dials and nut covers have been designed to push-fit into the collet knob body to give added versatility.

All collet knob bodies, caps, pointers and nut covers are manufactured in nylon with a finely textured matt finish. Transparent figure dials are manufactured in polycarbonate, coloured dials are in nylon. Collets, housings and nuts, fitted into the knobs during manufacture, are of brass and will accommodate a wide range of shaft lengths and bush lengths. All knobs shown are available in black, or grey as standard. Other colours are available to order. Please refer to Page 9.

Two colour soft-touch collet knobs

These items meet the needs of the general industrial and audio market for a soft touch finish as an alternative to the traditional hard surface finish.

The 2 shot process, using Nylon 6 and thermoplastic elastomer, allows the indicator line to be moulded rather than printed. Full details are specified on Page 7. The standard body colour is black and the line, when specified, is white. Other colour combinations are available to order. Please refer to Page 9.

Both items can be used as a dual concentric set.

Dual Concentric Assemblies

This table shows the knob combinations suitable for dual-concentric assemblies. Please contact the Sales Office for details of special through-hole collets, if required.

тор	BASE
10mm	13mm
11mm	15mm
15mm	21mm
21mm	29mm

Accessories

All collet knobs are designed to accept caps once fitted to the shaft. These with other accessories are detailed on Page 7 with available colours on Page 9.

Installation Torque

The maximum torque that should be applied to collet nuts when installing them on a shaft is as follows:

Кпоb Туре	Shafts 2mm, 3mm, 4mm and ¹ /8 in	Shafts 6mm, 1/4 in and ³ /16 in
	N.m	N.m
S10 S11, SP11, K11 S13	0.294	
S15, SD15, SN15, SB15, SW15	0.784	
K15, W15, K21, KP21, W21, K29, W29	1.471	1.471
S21, SP21, SB21, SW21 S29, SP29, SB29, SW29 S38, SC38	0.784	
S47, SC47, SCF47		

Turning Torque

The torque that can be transmitted by knobs without slipping, assuming the knob has been adequately tightened on the shaft, is as follows:

Кпоb Туре	Shafts 2mm, 3mm, 4mm and ¹ /8 in and ³ /16 in	Shafts 6mm and 1/4 in
	N.m	N.m
S10 S11, SP11, K11 S13	0.245	
S15, SN15, SP15, SB15, SW15	0.392	0.784
K15, W15 S21, SP21, SB21, K21, KP21, W21 S29, SP29, SB29, SW29, K29, W29 S38, SC38	0.588	1.176
S47, SC47, SCF47		

Conventional push-on knobs

A quality push-on knob manufactured in nylon, matching the style of the collet range, with a finely textured matt finish. All require a cap as per the collet range (other accessories cannot be fitted). All knobs shown are available in black or grey as standard. Other colours are available to order. Please refer to Page 9.

Shaft configuration

Our push-on knobs have been designed to provide a simple and secure shaft attachment. The internal moulding grips the shaft securely, with 'D' shape, splined or slotted configurations. Some 'D' shape shafts feature an integral metal compression ring.



Dual Concentric

11 & 15mm knobs can be supplied for this application. Please contact sales office for details.

Line positioning for flatted shafts

(Moi

As standard, line printing, if required, will be in the position detailed in the drawings below. Should you require alternative line positioning, please state the location with your order. The printed line may be positioned centrally in any flute; flutes are at increments of 60° on 11mm knobs, 45° on 15mm knobs, 36° on 21mm knobs and 30° on 29mm knobs. The 15mm bar knob is shown below in the SIFAM standard form, with the wings perpendicular to the shaft 'flat'. However, the

angle of the wings to the 'flat' of the shaft may be altered by 45° increments if required. line (standard) 11 mm 15mm bar 29mm 15mm 21mm n in increments o. SIFAM standard ' ~rinted to order) Line position in increments of 60° from SIFAM standard (Moulded and printed to order) Line position in increments of 36 from SIFAM standard (Moulded and printed to order) Line position and/or wing position in increments of 60° from SIFAM standard (Moulded and printed to order) ents of 36° Line position in increments of 30° from SIFAM standard (Moulded and printed to order) Line position from

DA110/111 DB110/111 DR110/111 DAN110/111 TPP110/111 DRK110/111 DPN110/111 DRN110/111 TP110/111 TPN110/111 D shaft without compression ring Solined shaft without compression rind D shaft with compression ring D shaft with compression ring Shaft Flat/Sp Plain With line DA110 004 DB110 004 4.5mm DRK110 006 DRK111 006 DAN110 125 DAN110 004 6mm TPP110 006 TPP111 006 4mm DA111 004 DB111 004 6mm DAN111 125 DAN111 004 18sp ¹/₈ in 4mm 2.38mm 3mm 2.5mm 4mm 3mm D shaft without compression ring D shaft without compre on rina 4.5mm DR110 006 DR111 006 4mm 6mm DPN110 004 DRN110 006 DPN111 004 DRN111 006 6mm 3mm 4.5mm Splined shaft without comp 6mm 18sp TP110 006 TP111 006 Splined shaft without compression ring 18sp 18sp TPN110 180 TPN110 006 4.55mm TPN111 180 TPN111 006 6mm DA150/151 DB150/151 DC150/151 DR150/151 DRD150/157 DAN150/151 DAK150/151 DAN 150/151 DBN150/151 DCN150/151 DPN150/151 TPN150/151 DBK150/15 DCK150/15 TP150/151 D shaft with compression ring D shaft with compression ring D shaft with compression ring D shaft without compression ri Shaft Flat/Sp Plain With line DA151 004 DA151 006 DB151 006 DC151 006 DA151 250 DB151 250 DAK151 004 DAK151 006 DBK151 006 DCK151 006 DAK151 250 4mm 6mm 6mm 6mm ¹/4 in 4mm 6mm 6mm 6mm DA150 004 DAK150 004 4mm 6mm 6mm 6mm 3mm 5mm 4mm DAN150 004 DAN151 004 DAN151 006 3mm 3mn 6mm 4.5mm DBD150 006 DBD157 006 DAN150 004 DAN150 006 DBN150 006 DCN150 006 DAN150 250 DBN150 250 DA150 004 DA150 006 DB150 006 DC150 006 DA150 250 5mm 4mm 4.5mm 5.54mm DAK150 004 DAK150 006 DBK150 006 DCK150 006 5mm 4mm DBN151 006 DBN151 006 DCN151 006 4.5mm 5.54mm 4.5mm 5.54mm DAK150 250 1/4 in 1/4 in 1/4 in 1/4 in DBN151 250 DB150 250 4mm 4mm D shaft without compression ring D shaft without compression ring 4.5mm DR150 006 DR151 006 6mm 1/4 in DPN150 006 DPN150 250 DPN151 006 DPN151 250 6mm 5.54mm Splined shaft without comp pression rind TP150 006 TP151 006 Splined shaft without compression ring 6mm 18sp 4.55mm 18sn TPN150 180 TPN151 180 6mm 1/4 in 18sp 24sp TPN150 006 TPN150 250 TPN151 006 TPN151 250 DANB150/151 DBNB150/151 TPP150/151 DA210/211 DAK290/291 DB210/211 DBK290/291 TP210/211 DQK290/291 Splined shaft without compression ring D shaft with compression ring D shaft with compression ring D shaft with compression ring Flat/Sp With line Shaft Plain Flat/Sp Flat/Sp Plain Plain Flat/Sp Plain Shaft With line Shaft With line Shaft With line 6mm 18sr TPP150 006 TPP151 006 DANB150 006 DBNB150 006 DANB150 250 DA210 004 DA210 006 DA211 004 DA211 006 ^{3/16} in 6mm 6mm ^{1/4} in DAK290 187 DAK290 006 DAK291 187 DAK291 006 DANB151 006 4mm 6mm imm nm nm 006 6mm 4mm 5.54mm DBNB151 006 DANB151 250 1/4 in 6mm DB210 006 DB211 006 4mm 5.54mm DBK290 006 DAK290 250 1/4 in 5.54mm DA210 250 DA211 250 DAK291 250 Solined shaft without compression ring D shaft without compression ring 18sp 24sp TP210 180 TP210 250 4mm DQK290 006 DQK291 006 4.55mm 6mm TP211 180 TP211 250

1/4 in

Colour Charts //S

Item Colour	Print Colour**	Collet knobs	Line	Soft Touch Collet Body knobs	Conventional Push-on Knobs	Caps	Nut Covers***	Pointers**	Coloured Figure Dials**	Stators**	Pointer	Two Colour Push-on Body Knobs Hard or Soft	Single Colour Slider	Line	Two Colour Slider Knobs _{Body} Hard or Soft finish	Pushbuttons
Black	W	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1
Dark Grey	W	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Mid Grey	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Grey	B	1	1	0	1	1	1	1	Х	-	1	Х	Х	1	Х	1
White	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	\checkmark	Х	1
Lupin	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Red	W	0	0	0	Х	1	1	1	Х	-	1	Х	Х	1	Х	1
Orange	W	0	0	0	Х	1	Х	Х	Х	-	1	Х	Х	1	Х	0
Yellow	B	0	0	0	Х	1	Х	1	Х	-	1	Х	Х	1	Х	0
Cream	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Peach	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Hopsack	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Pastel Green	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	\checkmark	Х	0
Bright Green	W	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Green	W	0	0	0	Х	1	Х	1	Х	-	1	Х	Х	1	Х	0
Pale Blue	B	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	✓	Х	0
Bright Aqua	W	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0
Blue	W	0	0	0	Х	1	Х	1	Х	-	1	Х	Х	1	Х	0
Magenta	W	0	0	0	Х	Х	Х	Х	Х	-	1	Х	Х	1	Х	0

 \checkmark = Standard X = 1000 pcs minimum 0 = 5000 pcs minimum 0 = White B = Black ** = Not applicable to Soft Touch Collet knobs



In addition to our conventional range of push-on knobs, we offer more specialised items, each incorporating design features tailored to meet the changing requirements of some customers. A two shot moulding process is used so that the cap/pointer is an integral part of the knob, thus avoiding subsequent assembly costs. Soft touch knobs are of polypropylene and thermoplastic elastomer to provide a smooth velvet feel, the hard touch is all polypropylene.

Colours

The standard body colour is Black. Other colours are available to order. Pointers are available in a wide range of colours. Please refer to Page 9 for colour options.

11mm 3/02 3/03 11mm 11mm 11mm 11mm 3/03 13mm 3/03 11 mm 3/04 6/04 10mm 3/05 6/05 3/05 12mm 6/05

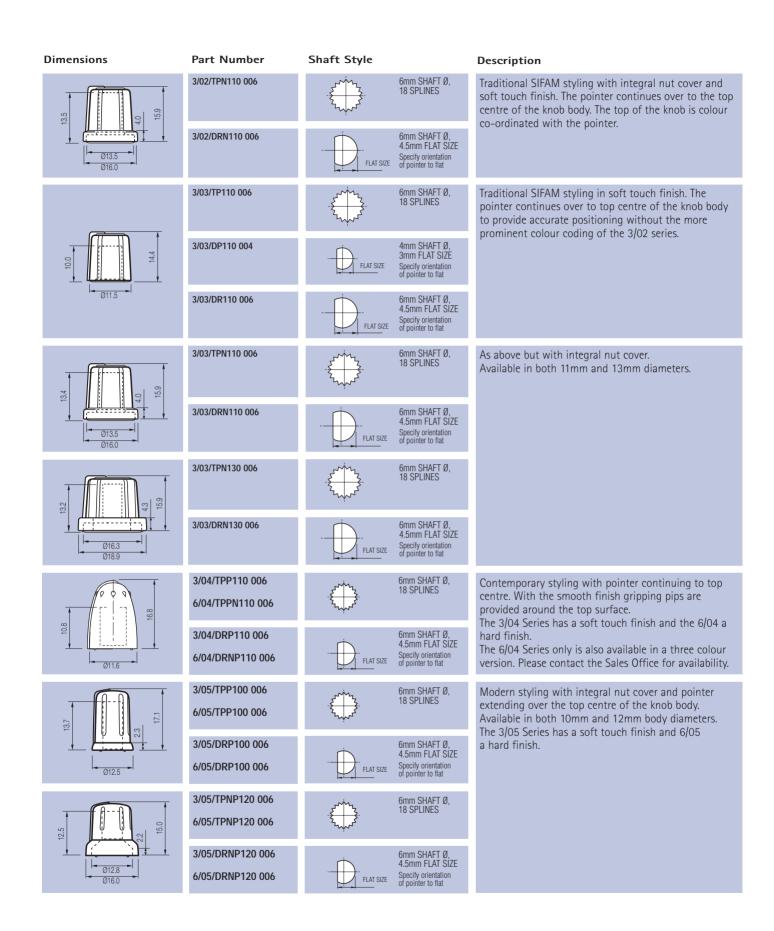
Ordering procedure

Please quote the part number and state required body and pointer colour. Available colours are referred to on Page 9. For special colours please contact the Sales Office. For items fitting to D shafts the pointer will be positioned as standard opposite the flat. If alternative orientation is required please state the number of degrees clockwise from the standard position when viewed from the top. Minimum quantity 1000.

Packaging

Push-on knobs will be packed in bulk.





Slider knobs

SIFAM's slider knobs are designed and shaped to provide a stylish appearance with ease of control. The extensive range, in a matt finish, is intended to suit the needs of both applications and users. Various materials are used depending on the design. Where nylon is specified this will match the finish of other SIFAM control knobs and pushbuttons moulded in this material. Likewise soft touch versions will complement the rotary push-on knobs with the same finish.

Slider knobs are available, as standard, with black body mouldings but other colours are available. Lines whether printed or moulded are supplied in white, as standard, but other colours are available to order and can complement control knobs and pushbuttons, if required. Available colours are referred to on Page 9. Apart from the tang sizes shown, others may be able to be accommodated.

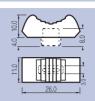
Should you have a requirement not covered by our standard range, please contact the Sales Office.



02 LK110 04 LK110

02 LK150 04 LK150

Moulded in nylon the optional indicator line is printed on the top only. The 04 model has an underhang for the 01 tang only.





,	ang betanb
	01
	03 _40 x 1.2 (metal)
	04 <u>3.0 x 1.2</u> (metal)
	08

Tang Details

PLAIN	02 LK110 01 04 LK110 01	PLAIN
WITH LINE	02 LK111 01 04 LK111 01	WITH LINE
PLAIN	02 LK110 02	PLAIN
WITH LINE	02 LK111 02	WITH LINE
PLAIN	02 LK110 03	PLAIN
WITH LINE	02 LK111 03	WITH LINE
PLAIN	02 LK110 04	PLAIN
WITH LINE	02 LK111 04	WITH LINE
PLAIN	02 LK110 08	PLAIN
WITH LINE	02 LK111 08	WITH LINE

01 01	PLAIN	02 LK150 01 04 LK150 01
01 01	WITH LINE	02 LK151 01 04 LK151 01
02	PLAIN	02 LK150 02
02	WITH LINE	02 LK151 02
03	PLAIN	02 LK150 03
03	WITH LINE	02 LK151 03
04	PLAIN	02 LK150 04
04	WITH LINE	02 LK151 04
08	PLAIN	02 LK150 08
08	WITH LINE	02 LK151 08

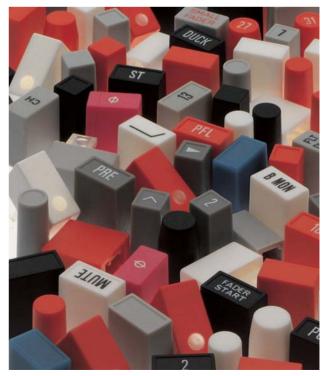
Pushbuttons 01110115

SIFAM's pushbuttons are moulded in a matt-finish nylon to match the style and appearance of other SIFAM control knobs. They are available, as standard, in black, grey, red and white. Other colours are available to order, please refer to Page 9. Should you have a requirement not covered by our standard range, please contact the Sales Office.

Special Printing

We are happy to offer our printing facility to those customers requiring special markings on our pushbutton products. Letters, numbers, symbols or logos may be printed to provide a high quality, durable, versatile and cost-effective added feature.

Please note that minimum order quantities apply to printed pushbuttons and other special requirements.



4/02 LK110	4/02 LK150	3/02 LK110	3/02 LK150	05 LK080	05 LK120	
Two shot, two colour design is with both the body and line m		Two shot, two colour soft touc moulded in thermoplastic elast feel. The indicator line, moulde across the top and both sides.	comer gives a smooth velvet	Moulded in nylon the optional indicator line is printed on the top only.		
WITH LINE 4/02 LK110 01	WITH LINE 4/02 LK150 01	WITH LINE 3/02 LK110 01	WITH LINE 3/02 LK150 01			
WITH LINE 4/02 LK110 02	WITH LINE 4/02 LK150 02					
WITH LINE 4/02 LK110 03	WITH LINE 4/02 LK150 03	WITH LINE 3/02 LK110 03	WITH LINE 3/02 LK150 03	PLAIN 05 LK080 03 WITH LINE 05 LK081 03	PLAIN 05 LK120 03 WITH LINE 05 LK121 03	
WITH LINE 4/02 LK110 04	WITH LINE 4/02 LK150 04	WITH LINE 3/02 LK110 04	WITH LINE 3/02 LK150 04	PLAIN 05 LK080 04 WITH LINE 05 LK081 04	PLAIN 05 LK120 04 WITH LINE 05 LK121 04	
WITH LINE 4/02 LK110 08	WITH LINE 4/02 LK150 08	WITH LINE 3/02 LK110 08	WITH LINE 3/02 LK150 08			

		Part Number	Shaft Size (mm)	Printing
Rectangular	5.5	PB 01/50/000 (RECESSED TOP) PB 01/51/000 (RECESSED TOP) PB 07/50/000 (FLAT TOP) PB 07/51/000 (FLAT TOP)	3.3 2.8 3.3 2.8	Maximum 1 line 6 characters 2 lines 6 characters per line
Illuminated		4/001/PB 11/50/000 (FLAT TOP)	3.3	Maximum 1 line 4 characters 2 lines 4 characters per line
Illuminated	6.7 6.8 4.8	4/001/PB 11/51/000 (FLAT TOP)	2.8	Maximum 1 line 4 characters 2 lines 4 characters per line • • •
Round/Tapered		PB 02/50/000 (RECESSED TOP) PB 02/51/000 (RECESSED TOP) PB 08/50/000 (FLAT TOP) PB 08/51/000 (FLAT TOP)	3.3 2.8 3.3 2.8	Maximum 1 line 2 characters
Square	5.5	PB 03/50/000 (RECESSED TOP) PB 03/51/000 (RECESSED TOP) PB 09/50/000 (FLAT TOP) PB 09/51/000 (FLAT TOP)	3.3 2.8 3.3 2.8	Maximum 1 line 3 characters 2 lines 2 characters per line
Cylindrical		PB 04/50/000 (RECESSED TOP) PB 04/51/000 (RECESSED TOP) PB 10/50/000 (FLAT TOP) PB 10/51/000 (FLAT TOP)	3.3 2.8 3.3 2.8	Maximum 1 line 2 characters





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As part of our policy of continuous product improvement we reserve the right to change specifications at any time.