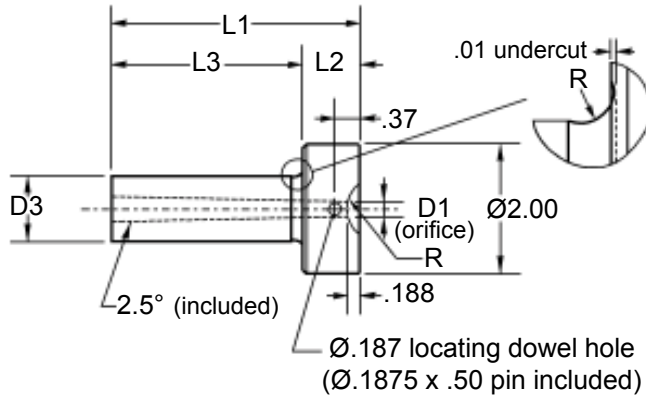




Mold Components

- Made of AISI 6150 material; precision ground; polished I.D.
- Hardened to Rc 46 - 50
- Dowel pin hole in head for locating (pin included)
- Radius under head with undercut to reduce chamfer size (.09 x 45°) required in mold plate



PART NUMBER		D1 (Orifice available in 32nds)	R (Radius available)	D3 + .0005 - .0000	L1	L2	L3
"B" SERIES	SBB00(OORR)	05, 07, 09, 11	.50 & .75	1.000	1.81	.875	.94
	SBB01(OORR)	05, 07, 09, 11			2.31		1.44
	SBB02(OORR)	05, 07, 09, 11			2.81		1.94
	SBB03(OORR)	05, 07, 09, 11			3.31		2.44
	SBB04(OORR)	05, 07, 09, 11			3.81		2.94
	SBB05(OORR)	07, 09, 11			4.31		3.44
	SBB06(OORR)	07, 09, 11			4.81		3.94
	SBB07(OORR)	07, 09, 11			5.31		4.44
SBB08(OORR)	07, 09, 11	5.81	4.94				
"A" SERIES	SBA00(OORR)	05, 07, 09, 11	.50 & .75	1.000	1.81	.625	1.19
	SBA01(OORR)	05, 07, 09, 11			2.31		1.69
	SBA02(OORR)	05, 07, 09, 11			2.81		2.19
	SBA03(OORR)	05, 07, 09, 11			3.31		2.69
	SBA04(OORR)	05, 07, 09, 11			3.81		3.19
	SBA05(OORR)	07, 09, 11			4.31		3.69
	SBA06(OORR)	07, 09, 11			4.81		4.19
"U" SERIES	SBU00(OORR)	05, 07, 09	.50 & .75	.750	1.81	.875	.94
	SBU01(OORR)	05, 07, 09			2.31		1.44
	SBU02(OORR)	05, 07, 09			2.81		1.94
	SBU03(OORR)	05, 07, 09			3.31		2.44
	SBU04(OORR)	05, 07, 09			3.81		2.94
"R" SERIES	SBR00(OORR)	05, 07, 09	NONE (00) (Flat top)	.750	1.81	.875	.94
	SBR01(OORR)	05, 07, 09			2.31		1.44
	SBR02(OORR)	05, 07, 09			2.81		1.94
	SBR03(OORR)	05, 07, 09			3.31		2.44
	SBR04(OORR)	05, 07, 09			3.81		2.94

Part number configuration:
Example: SBB050750

SBB050750 =
 Sprue Bushing B Series

SBB**05**0750=**05** Length (L1,L3)

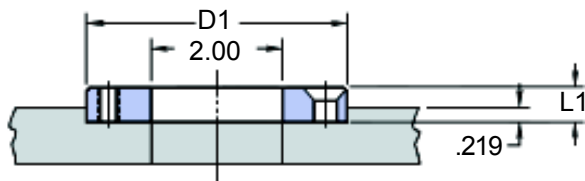
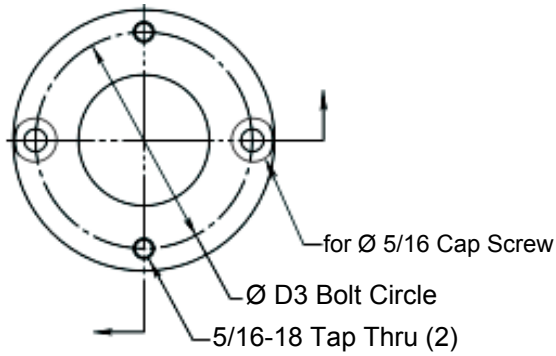
SBB05**07**50=Orifice (D1)

05 = 5/32 (.156) : **07** = 7/32 (.219)
09 = 9/32 (.281) : **11** = 11/32 (.344)

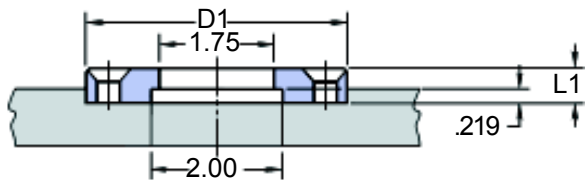
(Orifice is dimension projected to top (flat) of bushing head)

SBB0507**50** =
 Spherical Radius (R):
(50 = .50 : **75** = .75 : **00** = flat)

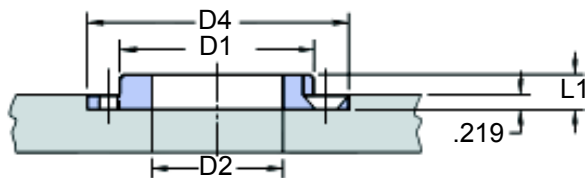




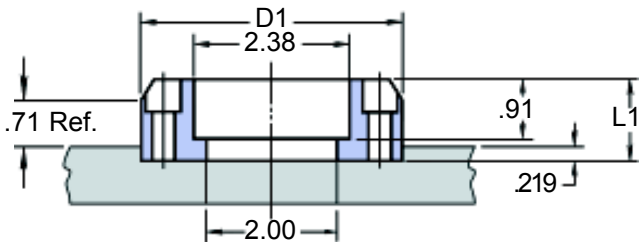
BASIC STYLE



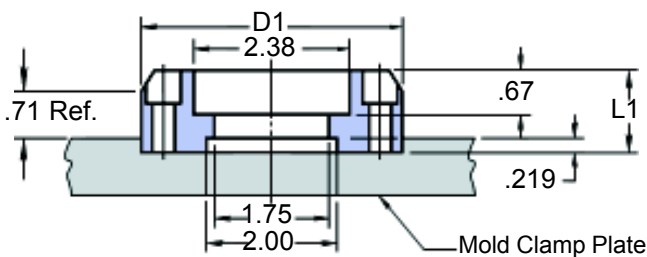
CLAMP STYLE



FLANGE STYLE



EXTENDED STYLE



EXTENDED CLAMP STYLE

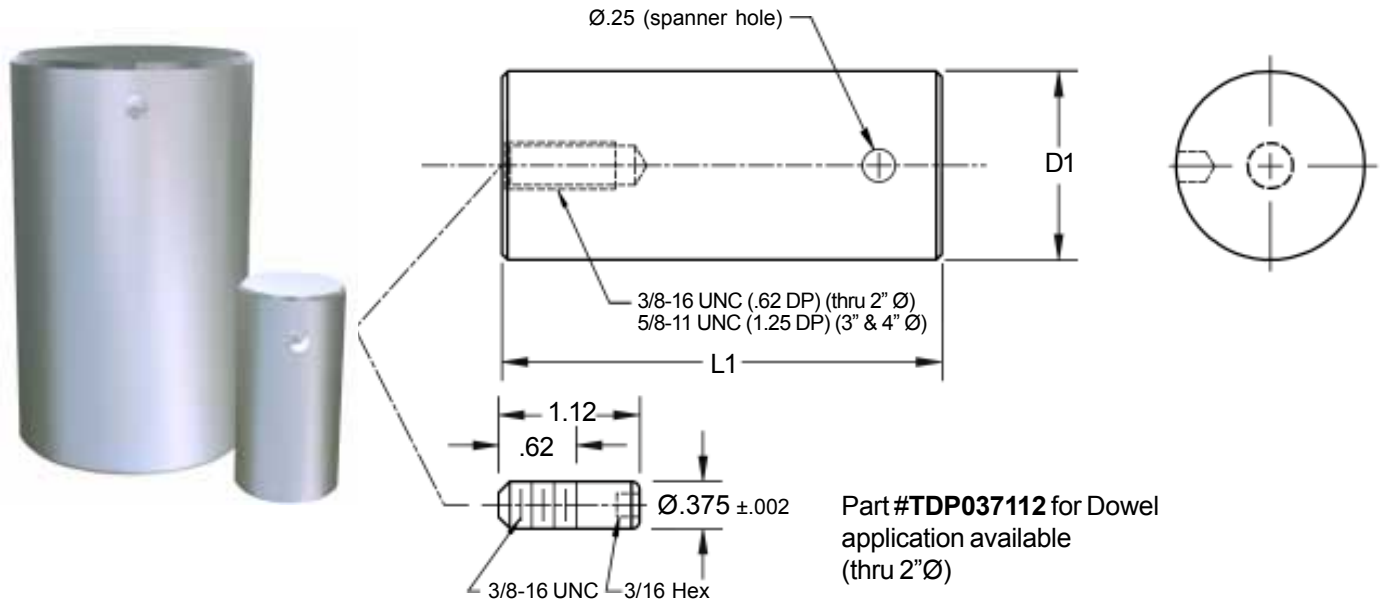
- Precision Machined
- Extended styles provide additional guidance and allow for installation of insulating sheets on mold
- Includes mounting screws
- Pull-Out provision

PART NUMBER	D1	D2	D3	D4	L1	STYLE
LOC400001	3.990	-	3.312	-	.53	Basic
LOC400004	3.990	-	3.312	-	.53	Clamp
LOC300011	2.990	2.00	3.312	3.99	.53	Flange
LOC400020	3.990	3.25	4.625	5.50	.53	Flange (Exten. Nozzle)
LOC400022	3.990	3.25	4.625	5.50	1.00	
LOC400041	3.990	-	3.312	-	1.25	Extended
LOC400044	3.990	-	3.312	-	1.25	Extended Clamp

Flat Head Cap Screws (5/16-18) included with Basic, Clamp and Flange styles.

Socket Head Cap Screws (5/16-18) included with Extended and Extended Clamp styles.

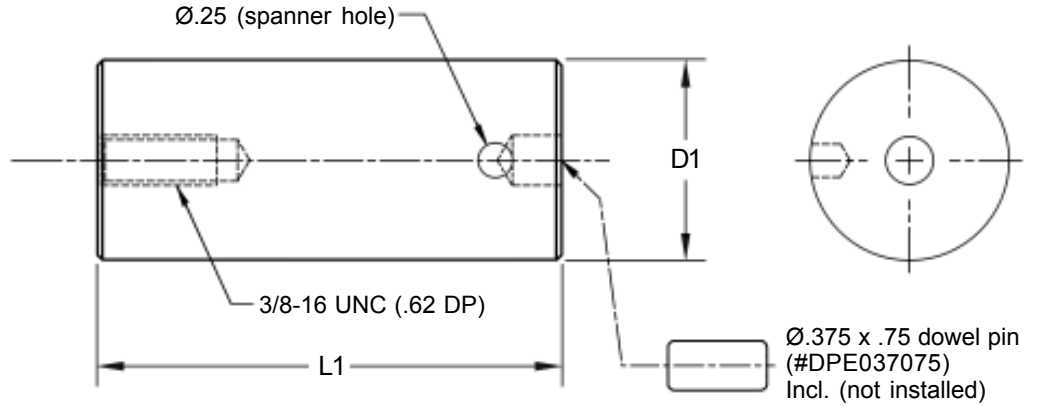




- Made of high yield strength AISI 1050 material
- Tapped hole in end for secure fastening with cap screw or installation of threaded dowel pin
- Ends of length ($L1$) are finished flat and parallel
- Hole in side of pillar for rod or spanner to assist in retaining pillar while installing holding screw

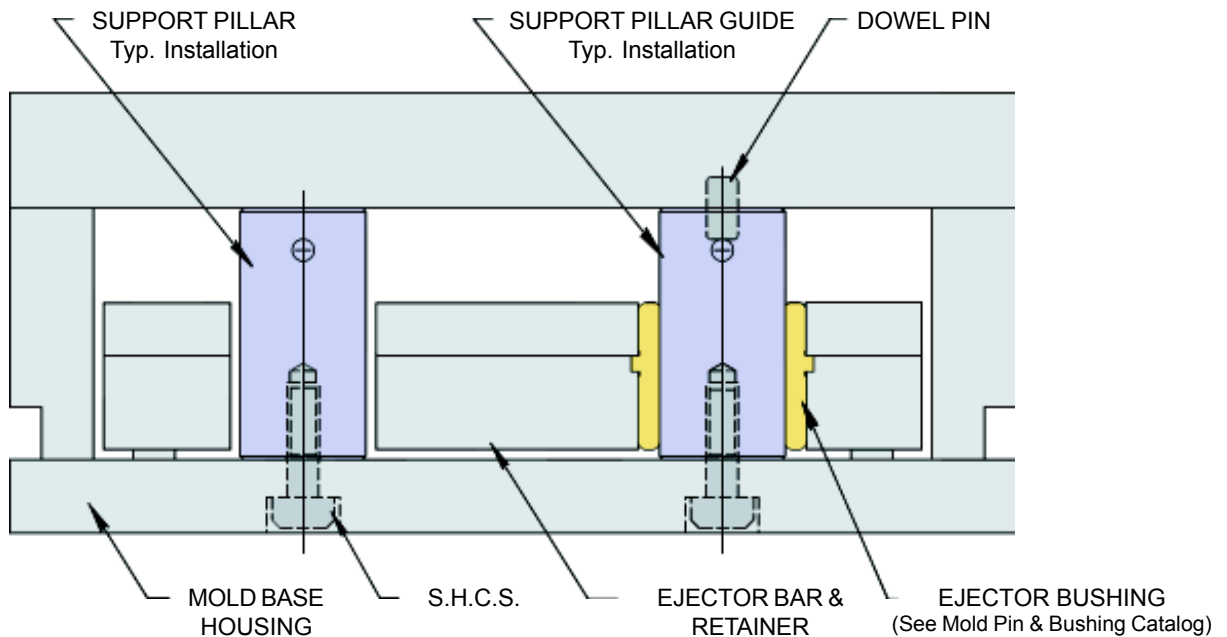
L1 LENGTH +.001 -.000	D1 DIAMETER ($\pm.030$)					
	1	1-1/4	1-1/2	2	3	4
2.500	SUP100250	SUP125250	SUP150250	SUP200250		
3.000	SUP100300	SUP125300	SUP150300	SUP200300		
3.500	SUP100350	SUP125350	SUP150350	SUP200350		
4.000	SUP100400	SUP125400	SUP150400	SUP200400		
4.500	SUP100450	SUP125450	SUP150450	SUP200450		
5.000		SUP125500	SUP150500	SUP200500	SUP300500	SUP400500
6.000		SUP125600	SUP150600	SUP200600	SUP300600	SUP400600
8.000					SUP300800	SUP400800

The mold's "support" and "core plates may deflect when the injection pressure is applied over the projected area of the cavities, runners and sprue – installing **Support Pillars** increases the load bearing capacity of the mold.

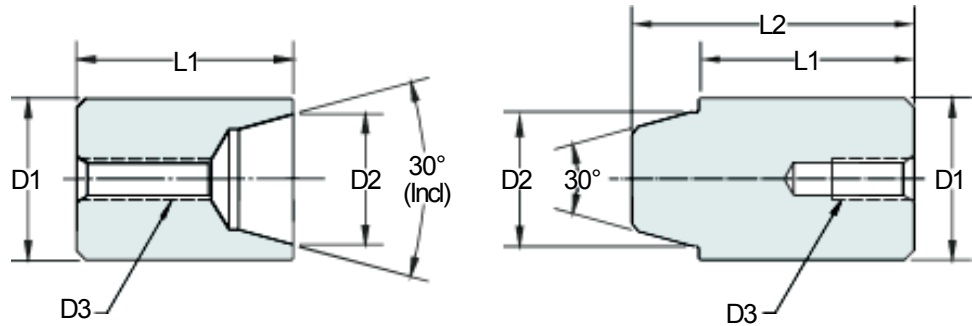


- Used for guided ejection systems and mold plate support – saves space and labor in building mold – reduces number of components required
- Diameter is case hardened and precision ground to leader pin tolerance
- Made of high yield strength AISI 1050 material
- Dowel pin hole in one end of pillar guide (dowel pin included) to permit precise location of pillar guide system
- Tapped hole in end opposite dowel for secure fastening
- Ends of length ($L1$) are finished flat and parallel
- Hole in side of pillar for rod or spanner to assist in retaining pillar during installation

L1 LENGTH +.001 -.000	D1 DIAMETER (+.0000/- .0005)					
	3/4 .7490	7/8 .8740	1 .9990	1-1/4 1.2490	1-1/2 1.4990	2 1.9990
2.500	SPG075250	SPG087250	SPG100250	SPG125250	SPG150250	SPG200250
3.000	SPG075300	SPG087300	SPG100300	SPG125300	SPG150300	SPG200300
3.500	SPG075350	SPG087350	SPG100350	SPG125350	SPG150350	SPG200350
4.000	SPG075400	SPG087400	SPG100400	SPG125400	SPG150400	SPG200400
4.500			SPG100450	SPG125450	SPG150450	SPG200450
5.000				SPG125500	SPG150500	SPG200500
6.000				SPG125600	SPG150600	SPG200600



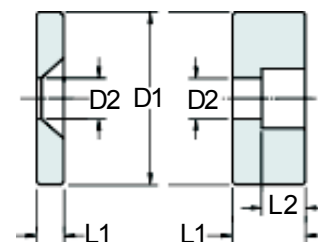
- Assure accurate registration of mold halves
- M/F mate solid in closed position; easily calculate desired clearance and grind back end of the part to fit
- Precision-ground die steel: 50 - 54 Rc
- Easy installation in blind or through pockets: two spacer thicknesses available



FEMALE COMPONENTS – INCH				
PART NUMBER	D1 +.0000 -.0005	D2 +.0003 -.0000	D3 TAP	L1 +.001 -.000
TLF050068	.5000	.3161	#10-24	.648
TLF050087				.836
TLF050118				1.148
TLF050137				1.336
TLF075068	.7500	.6094	1/4-20	.648
TLF075087				.836
TLF075118				1.148
TLF075137				1.336
TLF100068	1.0000	.8063	1/4-20	.648
TLF100087				.836
TLF100118				1.148
TLF100137				1.336
TLF150112	1.5000	1.0032	5-16-18	1.086
TLF150137				1.336
TLF150162				1.586
TLF200112	2.0000	1.3969	5/16-18	1.086
TLF200137				1.336
TLF200162				1.586

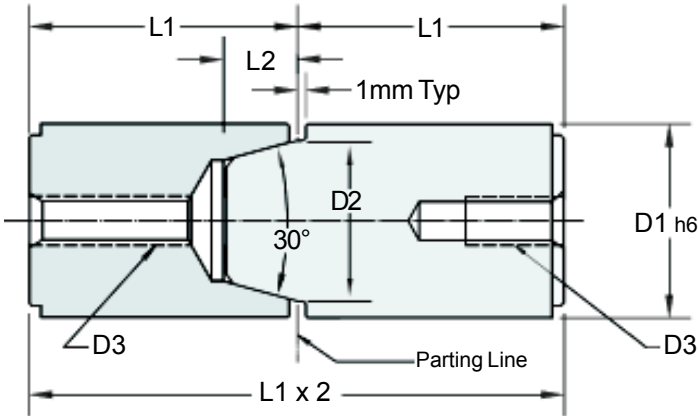
MALE COMPONENTS – INCH					
PART NUMBER	D1 +.0000 -.0005	D2 +.0000 -.0003	D3 TAP	L1 +.001 -.000	L2
TLM050068	.5000	.3372	#10-24	.648	.96
TLM050087				.836	1.15
TLM050118				1.148	1.46
TLM050137				1.336	1.65
TLM075068	.7500	.6305	1/4-20	.648	.96
TLM075087				.836	1.15
TLM075118				1.148	1.46
TLM075137				1.336	1.65
TLM100068	1.0000	.8274	1/4-20	.648	.96
TLM100087				.836	1.15
TLM100118				1.148	1.46
TLM100137				1.336	1.65
TLM150112	1.5000	1.0242	1-16-18	1.086	1.60
TLM150137				1.336	1.85
TLM150162				1.586	2.10
TLM200112	2.0000	1.4179	5/16-18	1.086	1.60
TLM200137				1.336	1.85
TLM200162				1.586	2.10

SPACERS – INCH				
PART NUMBER	D1	D2 (Screw Included)	L1 +.000 -.002	L2
TLS050018	.687	#10-24 x 3/4 FHCS	.188	-
TLS075018	1.000	1/4-20 x 3/4 FHCS	.188	-
TLS100018	1.187	1/4-20 x 3/4 FHCS	.188	-
TLS150025	1.687	5/16-18 x 3/4 FHCS	.250	-
TLS200025	2.287	5/16-18 x 3/4 FHCS	.250	-
TLS050050	.687	#10-24 x 3/4 SHCS	.500	.200
TLS075050	1.000	1/4-20 x 3/4 SHCS	.500	.300
TLS100050	1.187	1/4-20 x 3/4 SHCS	.500	.300
TLS150050	1.687	5/16-18 x 3/4 SHCS	.500	.350
TLS200050	2.287	5/16-18 x 3/4 SHCS	.500	.350



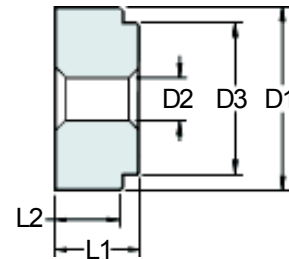
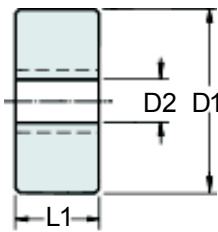
See reverse for installation instructions.

- Assure accurate registration of mold halves
- Male/Female mate solid in closed position: easily calculate desired clearance and grind back end of part to fit
- Material (interlocks) DIN #1.2767; 52-56 RC
- Easy installation in blind or through pockets; two disc thicknesses available



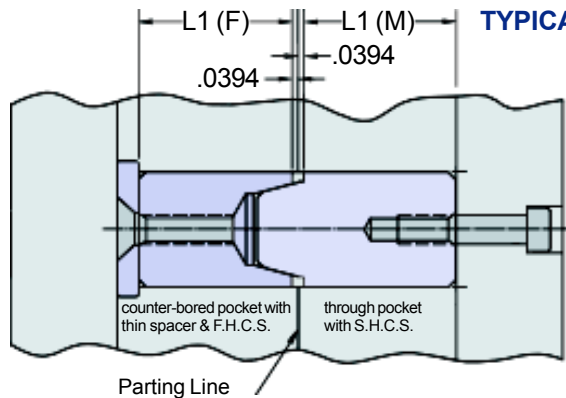
MALE/FEMALE SETS – METRIC					
PART NUMBER	D1	D2	D3 TAP	L1	L2
FW401617	16	10	M5	17	6
FW402027	20	15	M8	27	9
FW402527	25	20	M8	27	10
FW403036	30	25	M10	36	14
FW404246	42	30	M10	46	18

Note: Metric interlocks are sold in male/female sets.

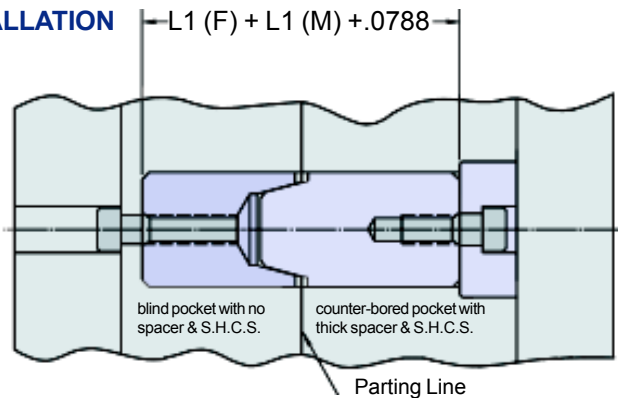


COMPENSATING DISCS – METRIC			
PART NUMBER	D1 -0.2 -0.4	D2 TAP	L1
FW4116XM8	16	M8	5
FW4120XM10	20	M10	8
FW4125XM10	25	M10	8
FW4130XM12	30	M12	10
FW4142XM12	42	M12	10

SHOULDER DISCS – METRIC					
PART NUMBER	D1 ±0.1	D2	D3 -0.2 -0.4	L1	L2
FW4220	25.5	8.5	20	9	6.3
FW4230	35.5	11.0	30	10	6.3
FW4242	47.5	11.0	42	10	6.3



TYPICAL INSTALLATION



Typical installations shown in solid closed position.
Grind the back (flat) end of female/male to obtain desired radial clearance. (3.7321 x desired rad clr = total height to grind)
(Total height to grind = sum of male & female if grinding both)

This also applies to FW40 metric, except L1 (F) & L1 (M) are referenced from parting line and already include the 1mm (.0394") set-back (2mm (.0788) total).