

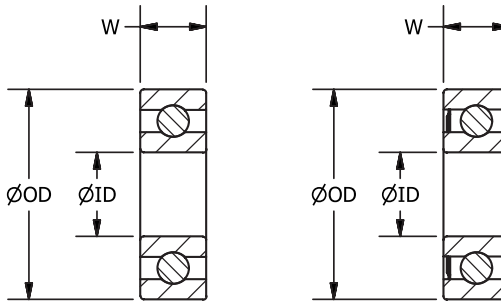
BP

COMPONENTS

Precision Ball Bearings

Plain Type - No Flange

BP



NO SHIELDS

DOUBLE SHIELDS

Materials

ABEC 3 & 7: 440 Stainless Steel
 ABEC 1: 52100 Steel

Standard Radial Play

.0002 - .0005

Lubrication

Open: Oil per MIL-L-6085A

Double Shielded: Grease per MIL-G-23827A

440C Stainless Steel			52100 Steel		ID	OD	W	Shield Data
ABEC 7	ABEC 5	ABEC 3	ABEC 1					
BP12-7	---	BP12-3	BP12-1	0.0400	0.1250	0.0469	No Shields	
BP37-7	BP37-5	BP37-3	BP37-1	0.0469	0.1562	0.0625	No Shields	
BP37S-7	BP37S-5	BP37S-3	BP37S-1	0.0469	0.1562	0.0937	Double Shield	
BP38-7	BP38-5	BP38-3	BP38-1	0.0550	0.1875	0.0781	No Shields	
BP38S-7	BP38S-5	BP38S-3	BP38S-1	0.0550	0.1875	0.1094	Double Shield	
BP33-7	BP33-5	BP33-3	BP33-1	0.0781	0.2500	0.0937	No Shields	
BP33S-7	BP33S-5	BP33S-3	BP33S-1	0.0781	0.2500	0.1406	Double Shield	
BP13-7	BP13-5	BP13-3	BP13-1	0.0937	0.1875	0.0625	No Shields	
BP13S-7	BP13S-5	BP13S-3	BP13S-1	0.0937	0.1875	0.0937	Double Shield	
BP34-7	BP34-5	BP34-3	BP34-1	0.0937	0.3125	0.1094	No Shields	
BP34S-7	BP34S-5	BP34S-3	BP34S-1	0.0937	0.3125	0.1406	Double Shield	
BP35-7	BP35-5	BP35-3	BP35-1	0.1250	0.2500	0.0937	No Shields	
BP35S-7	BP35S-5	BP35S-3	BP35S-1	0.1250	0.2500	0.1094	Double Shield	
BP36-7	BP36-5	BP36-3	BP36-1	0.1250	0.3125	0.1094	No Shields	
BP36S-7	BP36S-5	BP36S-3	BP36S-1	0.1250	0.3125	0.1406	Double Shield	
BP14-7	BP14-5	BP14-3	BP14-1	0.1250	0.3750	0.1094	No Shields	
BP14S-7	BP14S-5	BP14S-3	BP14S-1	0.1250	0.3750	0.1406	Double Shield	
BP24S-7	BP24S-5	BP24S-3	BP24S-1	0.1250	0.3750	0.1562	Double Shield	
BP24-7	BP24-5	BP24-3	BP24-1	0.1250	0.3750	0.1562	No Shields	
BP22S-7	BP22S-5	BP22S-3	BP22S-1	0.1250	0.5000	0.1719	Double Shield	
BP22-7	BP22-5	BP22-3	BP22-1	0.1250	0.5000	0.1719	No Shields	
BP42-7	BP42-5	BP42-3	BP42-1	0.1562	0.3125	0.1094	No Shields	
BP42S-7	BP42S-5	BP42S-3	BP42S-1	0.1562	0.3125	0.1250	Double Shield	
BP40-7	BP40-5	BP40-3	BP40-1	0.1875	0.3125	0.1094	No Shields	
BP40S-7	BP40S-5	BP40S-3	BP40S-1	0.1875	0.3125	0.1250	Double Shield	
BP25S-7	BP25S-5	BP25S-3	BP25S-1	0.1875	0.3750	0.1250	Double Shield	
BP25-7	BP25-5	BP25-3	BP25-1	0.1875	0.3750	0.1250	No Shields	
BP26-7	BP26-5	BP26-3	BP26-1	0.1875	0.5000	0.1562	No Shields	
BP26S-7	BP26S-5	BP26S-3	BP26S-1	0.1875	0.5000	0.1960	Double Shield	
BP29S-7	BP29S-5	BP29S-3	BP29S-1	0.2500	0.3750	0.1250	Double Shield	
BP29-7	BP29-5	BP29-3	BP29-1	0.2500	0.3750	0.1250	No Shields	
BP31-7	BP31-5	BP31-3	BP31-1	0.2500	0.5000	0.1250	No Shields	
BP31S-7	BP31S-5	BP31S-3	BP31S-1	0.2500	0.5000	0.1875	Double Shield	
BP28S-7	BP28S-5	BP28S-3	BP28S-1	0.2500	0.6250	0.1960	Double Shield	
BP28-7	BP28-5	BP28-3	BP28-1	0.2500	0.6250	0.1960	No Shields	
BP27-7	---	BP27-3	BP27-1	0.2500	0.7500	0.2188	No Shields	
BP27S-7	---	BP27S-3	BP27S-1	0.2500	0.7500	0.2812	Double Shield	

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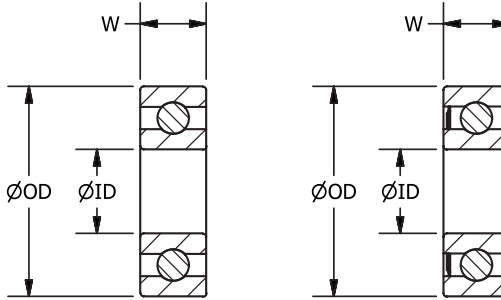
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Precision Ball Bearings

Plain Type - No Flange



NO SHIELDS

DOUBLE SHIELDS

Materials

ABEC 3 & 7: 440 Stainless Steel
 ABEC 1: 52100 Steel

Standard Radial Play

.0002 - .0005

Lubrication

Open: Oil per MIL-L-6085A

Double Shielded: Grease per MIL-G-23827A

440C Stainless Steel			52100 Steel		ID	OD	W	Shield Data
ABEC 7	ABEC 5	ABEC 3	ABEC 1					
BP43S-7	BP43S-5	BP43S-3	BP43S-1		0.3125	0.5000	0.1562	Double Shield
BP43-7	BP43-5	BP43-3	BP43-1		0.3125	0.5000	0.1562	No Shields
BP18S-7	---	BP18S-3	BP18S-1		0.3750	0.6250	0.1562	Double Shield
BP18-7	BP18-5	BP18-3	---		0.3750	0.6250	0.1562	No Shields
---	---	---	BP18-1		0.3750	0.6250	0.1562	No Shields
---	BP18AS-5	---	---		0.3750	0.6250	0.1960	Double Shield
BP39-7	BP39-5	BP39-3	BP39-1		0.3750	0.8750	0.2188	No Shields
BP39S-7	BP39S-5	BP39S-3	BP39S-1		0.3750	0.8750	0.2812	Double Shield
BP30S-7	---	BP30S-3	BP30S-1		0.5000	0.7500	0.1562	Double Shield
BP30-7	BP30-5	BP30-3	BP30-1		0.5000	0.7500	0.1562	No Shields
BP20S-7	---	BP20S-3	BP20S-1		0.5000	0.7500	0.1960	Double Shield
BP20-7	---	BP20-3	BP20-1		0.5000	0.7500	0.1960	No Shields
BP44-7	---	BP44-3	---		0.5000	0.8750	0.2188	No Shields
BP44S-7	---	BP44S-3	---		0.5000	0.8750	0.2812	Double Shield
BP15-7	---	BP15-3	BP15-1		0.5000	1.1250	0.2500	No Shields
BP15S-7	---	BP15S-3	BP15S-1		0.5000	1.1250	0.3125	Double Shield
BP16S-7	---	BP16S-3	BP16S-1		0.6250	0.8750	0.1562	Double Shield
BP16-7	BP16-5	BP16-3	BP16-1		0.6250	0.8750	0.1562	No Shields
---	BP16AS-5	---	---		0.6250	0.8750	0.1960	Double Shield
---	---	BP17-3	---		0.6250	1.3750	0.2812	No Shields
---	---	BP17S-3	---		0.6250	1.3750	0.3438	Double Shield
BP32S-7	---	BP32S-3	BP32S-1		0.7500	1.0000	0.1562	Double Shield
BP32-7	BP32-5	BP32-3	BP32-1		0.7500	1.0000	0.1562	No Shields
---	---	BP19-3	---		0.7500	1.6250	0.3125	No Shields
---	---	BP19S-3	---		0.7500	1.6250	0.4375	Double Shield
---	---	BP21-3	---		0.8750	1.8750	0.3750	No Shields
---	---	BP21S-3	---		0.8750	1.8750	0.5000	Double Shield
---	---	BP23S-3	---		1.0000	2.0000	0.5000	Double Shield

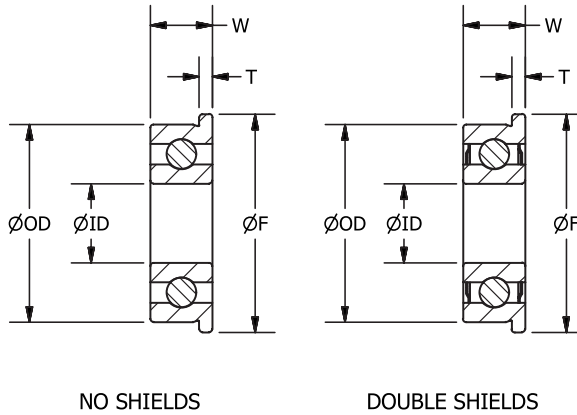
BF

COMPONENTS

Precision Ball Bearings

Flange Type

BF



Materials

ABEC 3 & 7: 440 Stainless Steel
 ABEC 1: 52100 Steel

Standard Radial Play

.0002 - .0005

Lubrication

Open: Oil per MIL-L-6085A
 Double Shielded: Grease per MIL-G-23827A

440C Stainless Steel			52100 Steel		ID	OD	W	F	T	Shield Data
ABEC 7	ABEC 5	ABEC 3	ABEC 1							
BF19-7	---	BF19-3	BF19-1	0.0400	0.1250	0.0469	0.171	0.013	No Shields	
BF16-7	BF16-5	BF16-3	BF16-1	0.0469	0.1562	0.0625	0.203	0.023	No Shields	
BF16S-7	BF16S-5	BF16S-3	BF16S-1	0.0469	0.1562	0.0937	0.203	0.031	Double Shield	
BF17-7	BF17-5	BF17-3	BF17-1	0.0550	0.1875	0.0781	0.234	0.023	No Shields	
BF17S-7	BF17S-5	BF17S-3	BF17S-1	0.0550	0.1875	0.1094	0.234	0.031	Double Shield	
BF12-7	BF12-5	BF12-3	BF12-1	0.0781	0.2500	0.0937	0.296	0.023	No Shields	
BF12S-7	BF12S-5	BF12S-3	BF12S-1	0.0781	0.2500	0.1406	0.296	0.031	Double Shield	
BF23-7	BF23-5	BF23-3	BF23-1	0.0937	0.1875	0.0625	0.234	0.018	No Shields	
BF23S-7	BF23S-5	BF23S-3	BF23S-1	0.0937	0.1875	0.0937	0.234	0.031	Double Shield	
BF13-7	BF13-5	BF13-3	BF13-1	0.0937	0.3125	0.1094	0.359	0.023	No Shields	
BF13S-7	BF13S-5	BF13S-3	BF13S-1	0.0937	0.3125	0.1406	0.359	0.031	Double Shield	
BF14-7	BF14-5	BF14-3	BF14-1	0.1250	0.2500	0.0937	0.296	0.023	No Shields	
BF14S-7	BF14S-5	BF14S-3	BF14S-1	0.1250	0.2500	0.1094	0.296	0.031	Double Shield	
BF15-7	BF15-5	BF15-3	BF15-1	0.1250	0.3125	0.1094	0.359	0.023	No Shields	
BF15S-7	BF15S-5	BF15S-3	BF15S-1	0.1250	0.3125	0.1406	0.359	0.031	Double Shield	
BF24-7	BF24-5	BF24-3	BF24-1	0.1250	0.3750	0.1094	0.422	0.023	No Shields	
BF24S-7	BF24S-5	BF24S-3	BF24S-1	0.1250	0.3750	0.1406	0.422	0.031	Double Shield	
BF5-7	BF5-5	BF5-3	BF5-1	0.1250	0.3750	0.1562	0.440	0.030	No Shields	
BF5S-7	BF5S-5	BF5S-3	BF5S-1	0.1250	0.3750	0.1562	0.440	0.030	Double Shield	
BF20-7	BF20-5	BF20-3	BF20-1	0.1562	0.3125	0.1094	0.359	0.023	No Shields	
BF20S-7	BF20S-5	BF20S-3	BF20S-1	0.1562	0.3125	0.1250	0.359	0.036	Double Shield	
BF18-7	BF18-5	BF18-3	BF18-1	0.1875	0.3125	0.1094	0.359	0.023	No Shields	
BF18S-7	BF18S-5	BF18S-3	BF18S-1	0.1875	0.3125	0.1250	0.359	0.036	Double Shield	
BF9-7	BF9-5	BF9-3	BF9-1	0.1875	0.3750	0.1250	0.422	0.023	No Shields	
BF9S-7	BF9S-5	BF9S-3	BF9S-1	0.1875	0.3750	0.1250	0.422	0.031	Double Shield	
BF6-7	BF6-5	BF6-3	---	0.1875	0.5000	0.1562	0.565	0.042	No Shields	
BF6S-7	BF6S-5	BF6S-3	BF6S-1	0.1875	0.5000	0.1960	0.565	0.042	Double Shield	
BF10-7	BF10-5	BF10-3	BF10-1	0.2500	0.3750	0.1250	0.422	0.023	No Shields	
BF10S-7	BF10S-5	BF10S-3	BF10S-1	0.2500	0.3750	0.1250	0.422	0.036	Double Shield	
BF11-7	BF11-5	BF11-3	BF11-1	0.2500	0.5000	0.1250	0.547	0.023	No Shields	
BF11S-7	BF11S-5	BF11S-3	BF11S-1	0.2500	0.5000	0.1875	0.547	0.045	Double Shield	
BF7-7	BF7-5	BF7-3	BF7-1	0.2500	0.6250	0.1960	0.690	0.042	No Shields	
BF7S-7	BF7S-5	BF7S-3	BF7S-1	0.2500	0.6250	0.1960	0.690	0.042	Double Shield	
BF21-7	BF21-5	BF21-3	BF21-1	0.3125	0.5000	0.1562	0.547	0.031	No Shields	
BF21S-7	BF21S-5	BF21S-3	BF21S-1	0.3125	0.5000	0.1562	0.547	0.031	Double Shield	
BF8-7	BF8-5	BF8-3	BF8-1	0.3750	0.8750	0.2812	0.969	0.062	No Shields	
BF8S-7	BF8S-5	BF8S-3	BF8S-1	0.3750	0.8750	0.2812	0.969	0.062	Double Shield	
BF22-7	---	BF22-3	BF22-1	0.5000	1.1250	0.2182	1.225	0.062	No Shields	
BF22S-7	---	BF22S-3	BF22S-1	0.5000	1.1250	0.2182	1.225	0.062	Double Shield	