

Ralphs-Pugh Plastic Idler Rollers

Ralphs-Pugh plastic idler rollers are available in Through Hole, Blind Hole or Grading and Inspection configurations. Tubing is available in standard or “Hi-Impact” formulation. The “Hi-Impact” material has UV stabilizers and additional impact modifiers. Tube diameters and wall thicknesses are available for virtually every type of application. All plastic bushings and endplugs are molded in our facility assuring the highest quality. These bushings (standard and heavy duty) are molded in acetal plastic or our best material - Ultra (Acetal plastic with Teflon additives). UHMW bushings are also available in specific sizes or upon request. Tube diameters larger than 1.05” utilize an economical ABS plastic endplug in conjunction with the specified bushings. All Ralphs-Pugh materials are FDA approved. Stainless steel bushing adapters and cap screws are also available to complete your roller requirements. **We can also manufacture custom rollers to your specifications.**

How to order:

For specific ordering information please identify the roller style for your specific application and refer to the page in this section for that style. Roller styles are listed on each page.



Plastic Idler Rollers - Through Hole (THI), Blind Hole (BHI), and Grading and Inspection (GIR)

Roller Styles:

THI = Through Hole Idler Roller
 BHI = Blind Hole Idler Roller
 GIR = Grading and Inspection Idler Roller

Tubes:

Tube No.	Tube O.D.	Wall Thickness
W00	0.840	0.107
W10	1.050	0.113
W20	1.310	0.133
W30	1.660	0.140
H41	1.900	0.112
H45/D45	1.900	0.200
H51	2.375	0.125
W55	2.375	0.218
H61	2.875	0.150
W65	2.875	0.276
D75	3.500	0.300
D85	4.500	0.337

Bushings:

Standard Duty (7/8" long)	Heavy Duty (1 1/2" long)	GIR (1 13/16" long)
1/4T	1/4 5T**	7/16 5B
5/16T	5/16 5T**	1/2 5B
3/8T	3/8 5T	5/8 5B
7/16T	7/16 5T	9/16 5B
1/2T	1/2 5T	3/4 5B
3/8B	9/16 5T	
1/2B*	5/8 5T	
	3/4 5T	
	1/4 5B**	
	5/16 5B**	
	3/8 5B	
	7/16 5B	
	1/2 5B*	
	9/16 5B*	
	5/8 5B*	
	3/4 5B	

Tube Materials:

W = White PVC
 H = "Hi-Impact" White PVC
 D = Dark Gray PVC

Bushing Materials: FDA Approved

Molded acetal unless otherwise specified

Options:

UHMW
 Molded "Ultra Blue" Acetal
 with Teflon additives

** UHMW only

5 = Heavy duty bushing - 1 1/2" long

T = Through Hole Bushing

B = Blind Hole Bushing

GIR = Grading and Inspection Bushing
 - 1 13/16" long

* Hardware available

Hardware:

Includes 2 each SSBA and 2 each SSCS

SSBA = Stainless steel bushing adapter drilled and tapped 5/16" - 18

SSCS = Stainless steel cap screws threaded 5/16" - 18

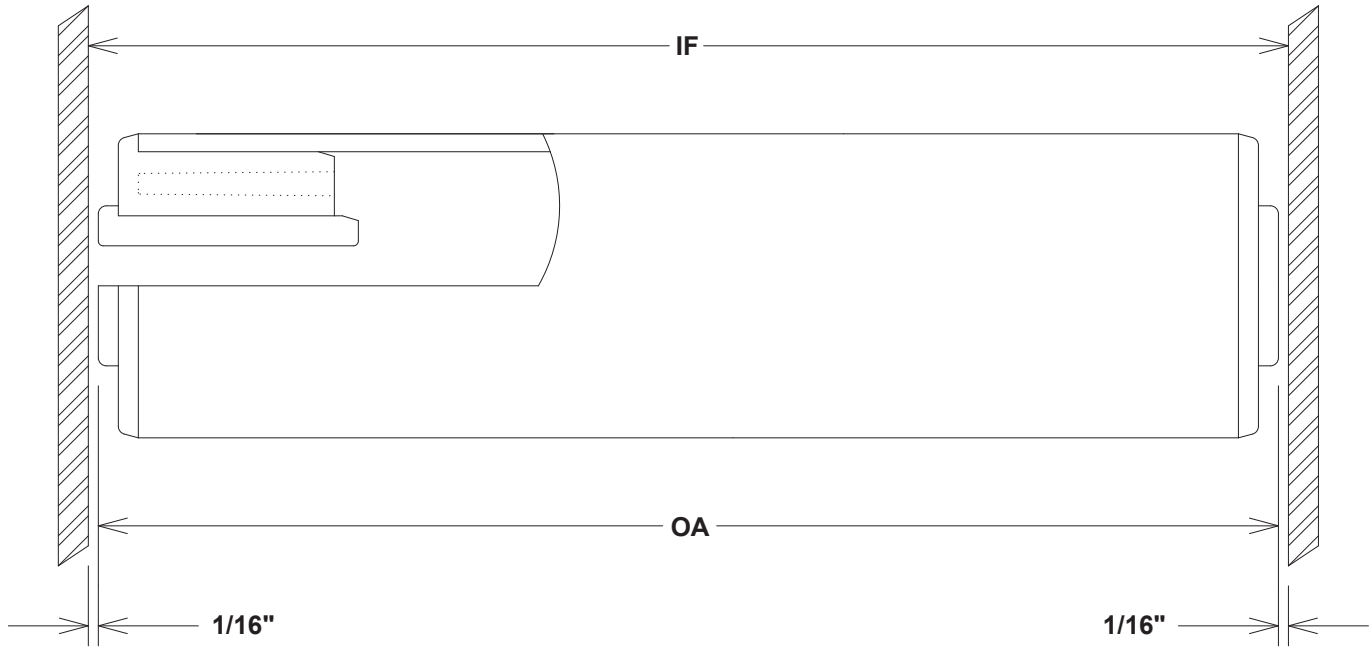


Through Hole
Bushing

Blind Hole
Bushing

Grading & Inspection
Bushing

Through Hole Idler Rollers (THI) - Standard Duty Bushings



Tubes:

Tube No.	Tube O.D.	Wall Thickness
W00	0.840	0.107
W20	1.310	0.133
H41	1.900	0.112

Bushings:

Standard Duty
1/4T
5/16T
3/8T
7/16T
1/2T

Tube Materials:

W = White PVC
H = "Hi-Impact" White PVC

Bushing Materials: FDA Approved

Molded Acetal unless otherwise specified

Options:

Molded "Ultra Blue" Acetal with Teflon additives
UHMW (upon request)

Ordering Example:

Roller O.D. and wall thickness from tube chart _____
 Bushing size, type and duty from bushing chart _____
 Roller Style _____
 Length of Roller _____

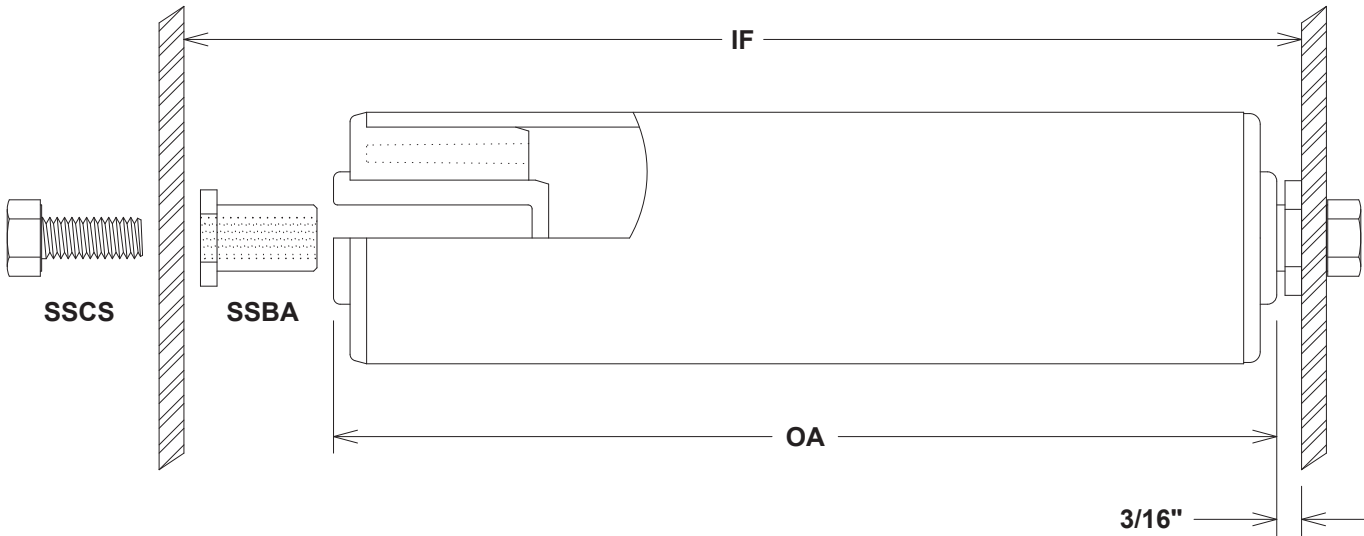
41 - 1/2T - THI X 24" OA

O.A. = length of roller from outside to outside of plastic bushing

I.F. = Inside frame dimension (will allow 1/8" endplay when roller is installed)

* Note: Minimum I.F. should be O.A. + 1/8"

Blind Hole Idler Rollers (BHI) - Standard Duty Bushings



Tubes:

Tube No.	Tube O.D.	Wall Thickness
W20	1.310	0.133
H41	1.900	0.112

Bushings:

Standard Duty
3/8B
1/2B

Tube Materials:

W = White PVC
 H = "Hi-Impact" White PVC

Bushing Materials: FDA approved

Molded Acetal unless otherwise specified

Options:

Molded "Ultra Blue" Acetal with Teflon additives
 UHMW (upon request)

Hardware:

Frame hardware available for 1/2 B only consisting of; 2 each SSBA and 2 each SSCS
 SSBA = Stainless steel bushing adapter drilled and tapped 5/16" - 18
 SSCS = Stainless steel cap screw threaded 5/16" - 18

Ordering example:

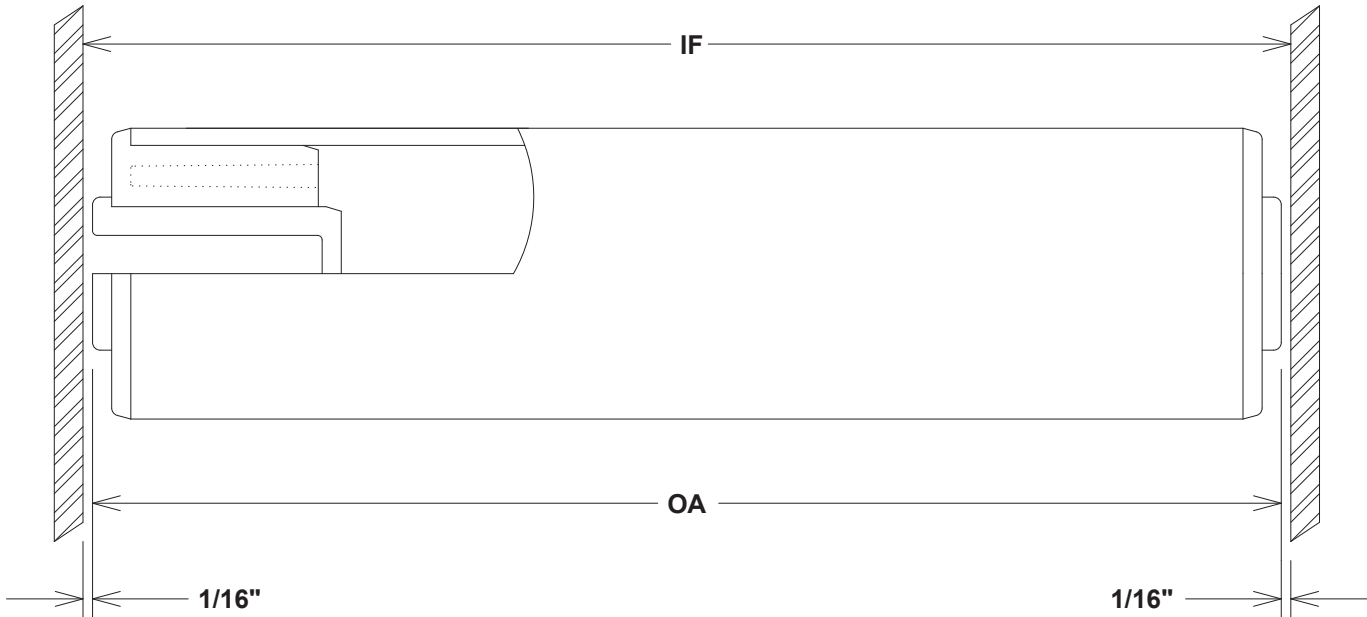
41 - 1/2B - BHI X 24" IF with hardware

Roller O.D. and wall thickness from tube chart _____
 Bushing size, type and duty from bushing chart _____
 Roller Style _____
 Length of Roller _____

O.A. = Length of roller from outside to outside of plastic bushing

I.F. = Inside frame dimension (will allow 1/8" endplay when installed). Minimum I.F. dimension should be 3/8" greater than the O.A. so that the idler will fit in with the hardware and allow 1/8" endplay

Blind Hole Idler Rollers (BHI) - Heavy Duty Bushings - GIR



Tubes:

Tube No.	Tube O.D.	Wall Thickness
W10	1.050	0.113
W20	1.310	0.133
W30	1.660	0.140
H41	1.900	0.112
H45 / D45	1.900	0.200
H51	2.375	0.125
W55	2.375	0.218
H61	2.875	0.150
W65	2.875	0.276
D75	3.500	0.300
D85	4.500	0.337

Bushings:

Heavy Duty
7/16 5B GIR
1/2 5B GIR
9/16 5B GIR
5/8 5B GIR
3/4 5B GIR

5 = Heavy duty bushing
 B = Blind hole style bushing
 GIR = Grading and Inspection - 1 13/16" long

Tube Materials:

W = White PVC
 H = "Hi-Impact" White PVC
 D = Dark Gray PVC

Bushing Materials: FDA Approved

Molded Acetal unless otherwise specified

Hardware:

Not available

Options:

Molded "Ultra Blue" Acetal with Teflon additives
 UHMW (upon request)

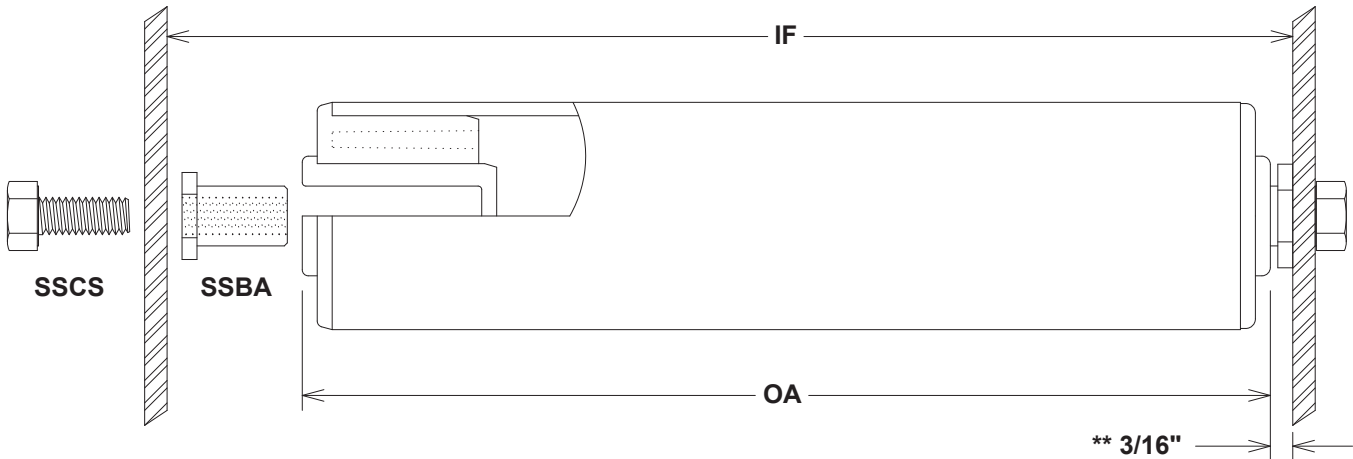
Ordering example:

Roller O.D. and wall thickness from tube chart _____
 Bushing size, type and duty from bushing chart _____
 Roller Style _____
 Length of Roller _____

51 - 1/2 5B GIR X 24" OA

O.A. = Length of roller from outside to outside of plastic bushing
 I.F. = Inside frame dimension (will allow 1/8" endplay when roller is installed).
 * Note: Minimum IF should be OA + 1/8"

Blind Hole Idler Rollers (BHI) - Heavy Duty Bushings



Tubes:

Tube No.	Tube O.D.	Wall Thickness
W10	1.050	0.113
W20	1.310	0.133
W30	1.660	0.140
H41	1.900	0.112
H45 / D45	1.900	0.200
H51	2.375	0.125
W55	2.375	0.218
H61	2.875	0.150
W65	2.875	0.276
D75	3.500	0.300
D85	4.500	0.337

Bushings:

Heavy Duty
1/4 5B*
5/16 5B*
3/8 5B
7/16 5B
1/2 5B
9/16 5B
5/8 5B
3/4 5B

5 = Heavy duty bushing - 1 1/2" long
 B = Blind hole style bushing

Tube Materials:

W = White PVC
 H = "Hi-Impact" White PVC
 D = Dark Gray PVC

Bushing Materials: FDA Approved

Molded Acetal unless otherwise specified

Options:

Molded "Ultra Blue" Acetal with Teflon additives

* UHMW only (upon request)

Hardware includes: 2 each SSBA and 2 each SSCS

Hardware:

Frame hardware available for 1/2 5B, 9/16 5B and 5/8 5B only
 SSBA = Stainless steel bushing adapter drilled and tapped 5/16" - 18
 SSCS = Stainless steel cap screw threaded 5/16" - 18

Ordering example:

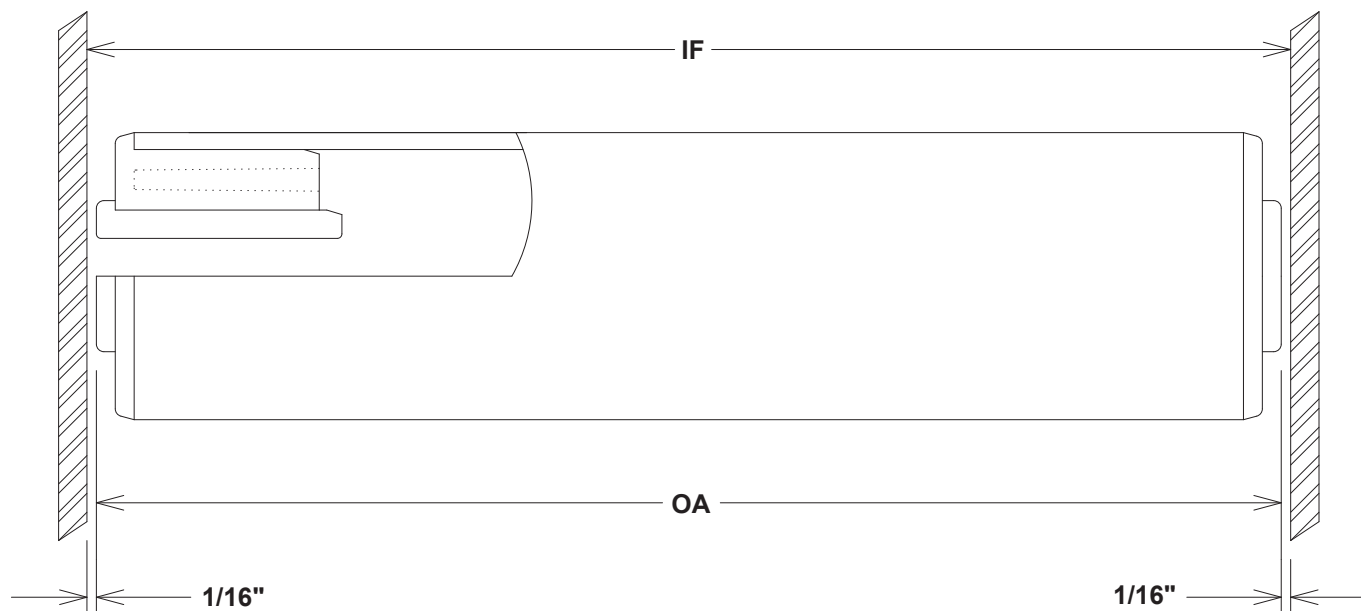
Roller O.D. and wall thickness from tube chart _____ **41 - 1/2 5B - BHI X 24" IF with hardware**
 Bushing size, type and duty from bushing chart _____
 Roller Style _____
 Length of Roller _____

O.A. = length of roller from outside to outside of plastic bushing

I.F. = Inside frame dimension (will allow 1/8" endplay when roller is installed). Minimum IF dimension should be 3/8" greater than the OA so that the idler will fit in with the hardware and allow 1/8" endplay

** Exception: 5/8" Hardware Requires 1/2" Greater Than OA

Through Hole Idler Rollers (THI) - Heavy Duty Bushings



Tubes:

Tube No.	Tube O.D.	Wall Thickness
W00	0.840	0.107
W10	1.050	0.113
W20	1.310	0.133
W30	1.660	0.140
H41	1.900	0.112
H45 / D45	1.900	0.200
H51	2.375	0.125
W55	2.375	0.218
H61	2.875	0.150
W65	2.875	0.276
D75	3.500	0.300
D85	4.500	0.337

Bushings:

Heavy Duty
1/4 5T*
5/16 5T*
3/8 5T
7/16 5T
1/2 5T
9/16 5T
5/8 5T
3/4 5T

5 = Heavy duty bushing - 1 1/2" long
T = Through hole style bushing

Tube Materials:

W = White PVC
H = "Hi-Impact" White PVC
D = Dark Gray PVC

Bushing Materials: FDA Approved

Molded Acetal unless otherwise specified

Options:

Molded "Ultra Blue" Acetal with Teflon additives

* UHMW only (upon request)

Ordering example:

Roller O.D. and wall thickness from tube chart _____ **41 - 1/2 5T - THI X 24" OA**
 Bushing size, type and duty from bushing chart _____
 Roller Style _____
 Length of Roller _____

O.A. = length of roller from outside to outside of plastic bushing

I.F. = Inside frame dimension (will allow 1/8" endplay when roller is installed)

* Note: Minimum I.F. should be O.A. + 1/8"