

Bulkhead Fitting Product Guide

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BFAS Series Bulkhead Fittings – Standard Flange

1/2" TO 3" PVC, CPVC AND PP - SHORT PATTERN

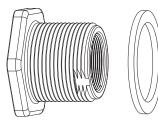
The New BFAS Series Standard Flange Short Barrel Fittings (Tank Adapters) offer safe, quick pipe connections to standard wall thermoplastic and metal tanks. The fittings feature left hand threads to prevent the fitting from unscrewing and are designed for easy one person installation.

KEY FEATURES

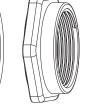
- Short Pattern / Barrel in PVC, CPVC or PP
- FPM or EPDM Gasket Seal
- Rated to 150 PSI
- Left Handed Threads
- Heavy Duty Buttress Threads to Help Prevent Leaks Under Pressure
- Hex Body for Easy Installation

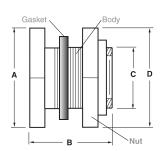
OPTIONS

• Ready Flanges for Making Flanged Connections to Tanks



NEW





TYPICAL APPLICATIONS

- Water and Wastewater Treatment
- Chemical Processing
- · Food and Beverage
- Swimming Pools, Aquariums, and Theme Parks
- Pulp and Paper
- Marine and Corrosive Environments
- Metal Finishing and Plating
- Agriculture and Irrigation

MATERIALS

- PVC Cell Class 12454 per **ASTM D1784**
- CPVC Cell Class 23447 per ASTM D1784
- PP per ASTM D4101
- Heavy-Duty FPM and EPDM Gasket Seals

TECHNICAL INFORMATION

SELECTION CHART				MINIMUM INSIDE RADII OF TANKS					
SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING	SIZE in / DN	Min. Rigid Tank ID	Min. Flexible Tank ID	Max. Wall Thickness	
1/2" — 3" (DN15 — DN80)	PVC	Socket x Thread Thread x Thread	FPM or EPDM	150 PSI @ 70°F non-shock	1/2 / 15 3/4 / 20	7.25" 10.00"	6.50" 9.25"	1.08" 1.08"	
	CPVC	Socket x Thread			1 / 25 1-1/4 / 32 1-1/2 / 40	11.75" 16.25" 16.25"	10.10" 12.19" 12.19"	1.08" 1.00" 1.00"	
	PP	Thread x Thread			2 / 50 3 / 80	25.75" 30.00"	19.38" 25.25"	1.00" 1.02"	

DIMENSIONS - INCHES / MILLIMETERS

SIZE in / DN	A in / mm	B in / mm	C in / mm INSTALLATION HOLE SIZE	D in / mm	E in / mm GASKET THICKNESS
1/2 / 15	2.00 / <mark>51</mark>	2.75 / <mark>69</mark>	1.38 / <mark>35</mark>	2.00 / 50	.19/5
3/4 / 20	2.38 / 60	2.88 / 73	1.63 / 41	2.38 / 60	.19 / 5
1 / 25	2.56 / <mark>65</mark>	2.88 / 73	1.88 / 47	2.56 / 65	.19 / 5
1-1/4 / 32	3.25 / <mark>83</mark>	3.00 / 76	2.63 / 67	3.25 / 82	.19 / 5
1-1/2 / 40	3.25 / <mark>83</mark>	3.00 / 76	2.63 / 67	3.25 / <mark>82</mark>	.19 / 5
2 / 50	4.38 / 111	3.25 / <mark>83</mark>	3.25 / <mark>82</mark>	4.38 / 111	.25 / 6
3 / 80	6.00 / 152	3.63 / <mark>92</mark>	4.50 / 114	6.00 / 152	.25 / 6
Dimonsions A. C. & D. ara Aaroos	Elata 1/0" to 0" Hovegon Elata 3	" Ootogon Elata			

Dimensions A, C, & D are Across Flats. 1/2" to 2" Hexagon Flats, 3" Octagon Flats



BFA Series Bulkhead Fittings – Standard Flange

1/2" TO 6" PVC, CPVC AND PP - LONG PATTERN

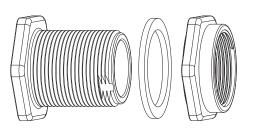
The Hayward BFA Series Standard Flange Long Pattern Fittings (Tank Adapters) are molded 1" longer than previous versions and allow safe, guick pipe connections to thicker wall thermoplastic and metal tanks. The fittings feature left hand threads to prevent the fitting from unscrewing and are designed for easy one person installation.

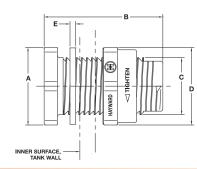
KEY FEATURES

- Long Pattern / Barrel in PVC, CPVC or PP for Thicker Wall Tanks
- FPM or EPDM Gasket Seal
- Rated to 150 PSI
- Left Handed Threads
- Heavy Duty Buttress Threads to Prevent Leaks Under Pressure
- Hex Body for Easy Installation

OPTIONS

• Ready Flanges for Making Flanged Connections to Tanks





TYPICAL APPLICATIONS

- Water and Wastewater Treatment
- Chemical Processing
- Food and Beverage
- Swimming Pools, Aquariums, and Theme Parks
- Pulp and Paper
- Marine and Corrosive Environments
- Metal Finishing and Plating
- Agriculture and Irrigation

MATERIALS

- PVC Cell Class 12454 per ASTM D1784
- CPVC Cell Class 23447 per ASTM D1784
- PP per ASTM D4101
- Heavy-Duty FPM and EPDM Gasket Seals

TECHNICAL INFORMATION

SELECTION CHART

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SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING	SIZE in / DN	Min. Rigid Tank ID	Min. Flexible Tank ID	Max. Wall Thickness
1/2" — 6" (DN15 — DN150)	PVC	Socket x Socket Socket x Thread Thread x Thread	FPM or EPDM	150 PSI @ 70°F non-shock	1/2 / 15 3/4 / 20 1 / 25	7.25" 10.00" 11.75"	6.50" 9.25" 10.70"	2.08" 2.08" 2.08"
	CPVC				1-1/4 / 32 1-1/2 / 40 2 / 50	16.25" 16.25" 25.75"	12.19" 12.19" 19.38"	2.00" 2.00" 2.00"
	PP	Thread x Thread			3 / 80 4 / 100 6 / 150	30.00" 60.00" 114.00"	25.25" 55.00" 97.00"	2.12" 2.45" 3.25"

DIMENSIONS - INCHES / MILLIMETERS

SIZE	А	В	С	D	E
in / DN	in / mm	in / mm	in / mm	in / mm	in / mm
	ACROSS FLATS		INSTALLATION HOLE SIZE	ACROSS FLATS	GASKET THICKNESS
1/2 / 15	2.00 / <mark>5</mark> 1	3.75 / <mark>95</mark>	1.38 / 35	2.00 / 50	.19 / 5
3/4 / 20	2.38 / 60	3.88 / 99	1.63 / 41	2.38 / 60	.19 / 5
1 / 25	2.56 / 65	3.88 / 99	1.88 / 47	2.56 / 65	.19 / 5
1-1/4 / <mark>32</mark>	3.25 / <mark>83</mark>	4.00 / 102	2.63 / 67	3.25 / 83	.19 / 5
1-1/2 / <mark>40</mark>	3.25 / 83	4.00 / 102	2.63 / 67	3.25 / <mark>83</mark>	.19 / 5
2 / 50	4.38 / 111	4.25 / 108	3.25 / <mark>82</mark>	4.38 / 111	.25 / 6
3 / <mark>8</mark> 0	6.00 / 152	4.65 / 118	4.50 / 114	6.00 / 152	.25 / 6
4 / 100	8.75 / <mark>222</mark>	5.75 / 1 <mark>46</mark>	5.75 / 146	8.75 / 222	.25 / 6
6 / 150	12.00 / 305	8.00 / 203	8.00 / 203	12.00 / 304	.31 / 8
Dimonsions A. C. 9 D. ara Aaraaa	Elata 1/0" to 0" Llavagon Elata (and 4" Octorion Flata			

Dimensions A, C, & D are Across Flats. 1/2" to 2" Hexagon Flats, 3" and 4" Octagon Flats



BFA Series Bulkhead Fittings – Oversized Flange

1/2" TO 1" PVC, CPVC AND PP - LONG PATTERN

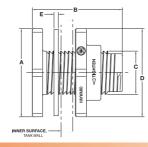
BFA Series Flange Bulkhead Fitting (Tank Adapters) features an oversized hex head flange designed specifically for safe, quick pipe connections to very large size tanks. The fittings feature left hand threads to prevent the fitting from unscrewing and are designed for easy one person installation.

KEY FEATURES

- Oversized Hex Head Flange for Large Size Tanks
- Long Pattern / Barrel in PVC, CPVC or PP for Thicker Wall Tanks
- FPM or EPDM Gasket Seal
- Rated to 150 PSI
- Left Handed Threads
- Heavy Duty Buttress Threads to Prevent Leaks Under Pressure
- Hex Body for Easy Installation

OPTIONS

• Ready Flanges for Making Flanged Connections to Tanks



TYPICAL APPLICATIONS

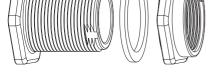
- Water and Wastewater Treatment
- Chemical Processing
- Food and Beverage
- Swimming Pools, Aquariums and Theme Parks
- Pulp and Paper
- Marine and Corrosive Environments
- Metal Finishing and Plating
- Agriculture and Irrigation

MATERIALS

- PVC Cell Class 12454
 per ASTM D1784
- CPVC Cell Class 23447
 per ASTM D1784
- PP per ASTM D4101

MINIMUM INSIDE RADII OF TANKS

• Heavy-Duty FPM and EPDM Gasket Seals



TECHNICAL INFORMATION

SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING	SIZE in / DN	Min. Rigid Tank ID	Min. Flexible Tank ID	Max. Wall Thickness
1/2" — 1" (DN15 — DN25)	PVC CPVC	Socket x Socket Socket x Thread Thread x Thread	FPM or EPDM	150 PSI @ 70°F non-shock	1/2 / 15 3/4 / 20 1 / 25	12.00" 13.50" 20.50"	11.00" 12.75" 18.50"	2.08" 2.08" 2.08"
	рр	Thread x Thread						

DIMENSIONS - INCHES / MILLIMETERS

SIZE in / DN	A in / mm ACROSS FLATS	B in / mm	C in / mm INSTALLATION	D in / mm	E in / mm
1/2 / 15	3.00 / 76	3.75 / 95	HOLE SIZE 1.38 / 35		.19/5
3/4 / 20	3.55 / <mark>90</mark>	3.88 / <mark>98</mark>	1.63 / 41	3.55 / <mark>90</mark>	.19 / 5
1 / 25	3.80 / 97	3.88 / 98	1.90 / 48	3.80 / 97	.19 / 5

Dimensions A, C, & D are Across Hexagon Flats.

CCP Series Tank-Tite™ Fittings

1/2" TO 3" - PVC COMPRESSION FITTING

A revolutionary and patent pending designed PVC compression fitting that provides a constant load on the gasket of the bulkhead fitting to overcome, and compensate for tank wall expansion/contraction in thickness due to changes in temperature and/or pressure within the tank. The Tank-Tite[™] also imparts at the same time a constant load on the bulkhead fitting nut that reduces the possibility of loosening of the nut due to vibration within the system.

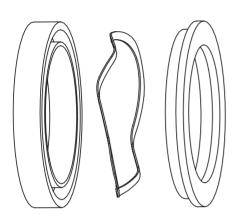
KEY FEATURES

- Robust PVC Upper and Lower Body Construction
- Stainless Steel Wave Spring
- Rated to 150 PSI
- Fits with Hayward BFA Series Bulkhead Fittings

MATERIALS

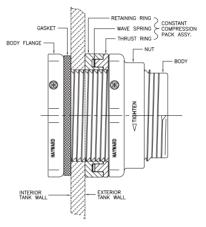
 PVC Cell Class 12454 per ASTM D1784 יברודר

• 17-7 PH Stainless Steel



* Does not come with bulkhead fitting

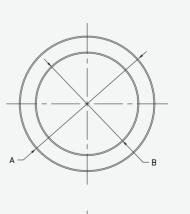
NEW



TECHNICAL INFORMATION

DIMENSIONS - INCHES / MILLIMETERS

SIZE in / DN	A in / mm	B in / mm	C in / mm Free Height	D in / mm working height	
1/2 / 15	2.40 / <mark>61</mark>	1.40 / <mark>36</mark>	.80 / 20	.69 / 18	
3/4 / 20	2.40 / <mark>61</mark>	1.65 / 42	.80 / 20	.69 / 18	
1 / 25	2.72 / 69	1.90 / 48	.84 / 21	.72 / 18	
1-1/4 / 32	3.56 / 9 0	2.66 / <mark>68</mark>	.90 / 23	.80 / 20	
1-1/2 / 40	3.56 / 9 0	2.66 / 68	.90 / 23	.80 / 20	
2 / 50	4.38 / 111	3.25 / <mark>82</mark>	.93 / 24	.83 / 21	1
3 / 80	6.12 / 155	4.52 / 115	1.07 / <mark>27</mark>	.91 / 23	1





Additional Hayward Products for Industrial Thermoplastic Tanks

1", 2" AND 3" PVC – SF SERIES SELF-ALIGNING BULKHEAD FITTINGS

KEY FEATURES

- PTFE Ball Seal
- Enables Straight Pipe Connections up to 27° of Offset Angle
- Ideal for Cone Bottom
 or Dome Top Tanks
- Swivel Ball Connection Corrects for Curved Tanks

VACUUM BREAKER COMPACT – PVC

KEY FEATURES

- PVC Body with FPM Membrane
- Prevents Vacuum Build-Up
 During Tank or Pipeline Draining
- Eliminates Siphoning
- Quick, Easy Drainage to 300 GPM
- Reliable Venting of Tanks and Piping Systems
- Easy Installation
- No Metal Parts to Stick or Jam
- Can Mount to 1-1/2" BFAS or BFA Series Bulkhead Fitting Only

3/4" PVC – TRUE UNION AIR RELEASE VALVES

KEY FEATURES

- Vents up to 150 GPM
- FPM or EPDM Seals
- Closes at 0 PSI
- Hollow PP Ball
- All Thermoplastic No Corrosion or Sticking
- Two Sets of End Connectors and Screen



1/4" TO 6" PVC AND CPVC – TRUE UNION BALL VALVES

KEY FEATURES

- Rated at 235 PSI through 4"
- Full Port Design
- Reversible PTFE Seats
- FPM or EPDM Seals
- Actuator Ready
- Double O-ring Stem Seals
- Adjustable Seat Retainer



1/2" TO 2" PVC – QV SERIES QIC2™ COMPACT BALL VALVES

KEY FEATURES

- Rugged, Compact and Lightweight Construction
- Full Port Design
- PTFE Seats
- EPDM O-ring Seals
- Low Torque, Easy 1/4-Turn Operation
- No Integral Parts to Replace
- Perfect for OEM Requirements

BY SERIES BUTTERFLY VALVES 1-1/2" TO 12" PVC, CPVC AND GFPP

PVC, CPVC AND GFPP WITH FPM, EPDM OR BUNA-N LINERS

KEY FEATURES

- Rated to 150 PSI for all Sizes
- Optional SSTL Lugs
- 316 Stainless Steel Shaft
- Pneumatic or Electric Actuators
- Blowout-Proof Shaft
- Gear Operators Available
- Stem Extensions





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