ASC Engineered Solutions

Concentric Reducer (Class 125 Standard)

Fig. 367

c UL us LISTED

FM APPROVED

Anvil standard and extra heavy cast iron threaded fittings are manufactured in accordance with ASME–B16.4 (except plugs and bushings, ASME B16.14). Dimensions also conform to Federal Specifications, WW–P–501 (except plugs and bushings WW–P–471).

Cast iron threaded fittings are available in both black and galvanized.

For Listings/Approval Details and Limitations, visit our website at www.asc-es.com or contact an ASC Engineered Solutions™ Representative.

See following page for standards and specifications.

Cast Iron Threaded Fittings Pressure - Temperature Ratings

Temperature	Pressure		Temperature	Pressure	
	Class 125	Class 250		Class 125	Class 250
°F/°C	PSI/bar	PSI/bar	°F/°C	PSI/bar	PSI/bar
-20°–150° -28.9°–65.6°	175 12.1	400 27.6	300° 148.9°	140 9.7	310 21.4
200° 93.3°	165 11.4	370 25.5	350° 176.7°	125 8.6	300 20.7
250° 121.1°	150 10.3	340 23.4	400° 204.4°	– –	250 17.2

Note:

Anvil standard and extra heavy cast iron threaded fittings are manufactured in accordance with ASME B16.4. Plugs and bushings are manufactured in accordance with ASME B16.14.

Figure 367 Concentric Reducers do not meet the overall length requirement of ASME B16.4. All other dimensions are in compliance.

ANVIL An ASC Engineered Solution

PROJECT INFORMATION	APPROVAL STAMP
Project:	☐ Approved
Address:	☐ Approved as noted
Contractor:	☐ Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

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Standards and Specifications

Cast Iron Threaded Fittings

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
Class 125	ASME B16.4	ASTM A126 (A)	ASTM A153	ASME B1.20.1	ASME B16.4
Class 250	ASME B16.4	ASTM A126 (A)	ASTM A153	ASME B1.20.1	ASME B16.4

Cast Iron Plugs and Bushings

	Dimensions	Material	Galvanizing*	Thread	Pressure Rating
	ASME B16.14	ASTM A126 (A)	ASTM A153	ASME B1.20.1	ASME B16.14

Note:

* ASTM B633. Type I, SC 4, may be supplied as alternate zinc coating per applicable ASME B16 product standard.

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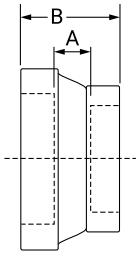

Size		A	B*	Unit Weight Black
NPS/DN	NPS/DN	In./mm	In./mm	Lbs./kg
¾ 20	½ 15	⅝ 16	1 9/16 40	0.40 0.18
1 25	½ (Hex) 15	11/16 17	1 11/16 43	0.54 0.24
	¾ (Hex) 20	7/16 11	1½ 38	0.63 0.29
1¼ 32	½ 15	9/16 14	1⅝ 41	0.84 0.38
	¾ 20	1 25	2⅛ 54	0.90 0.41
	1 25	15/16 24	2⅛ 54	1.07 0.49
1½ 40	½ 15	½ 13	1⅝ 41	1.00 0.45
	¾ 20	½ 13	1⅝ 41	1.20 0.54
	1 25	½ 13	1¾ 44	1.50 0.68
	1¼ 32	1 25	2¼ 57	1.45 0.66

Size		A	B*	Unit Weight Black
NPS/DN	NPS/DN	In./mm	In./mm	Lbs./kg
	½ 15	⅝ 16	2 51	2.00 0.91
	¾ 20	¾ 19	2 51	1.90 0.86
2 50	1 25	¾ 19	2 51	1.83 0.83
	1¼ 32	13/16 22	2⅛ 54	1.78 0.81
	1½ 40	⅞ 22	2 3/16 56	1.98 0.90
2½ 65	1½ 40	¾ 19	2 51	3.10 1.41
	2 50	1 25	2 9/16 65	2.98 1.35
3 80	¾ 20	15/16 24	2½ 64	4.31 1.95
	2 50	1 1/16 27	2¾ 70	3.96 1.80
	2½ 65	15/16 24	2 13/16 73	4.40 2.00

Note:

* Dimension "B" does not conform to ASME standard.

See first page for pressure-temperature ratings.

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Building connections that last™

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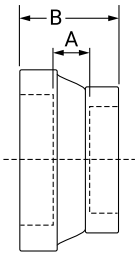
Fig. 367

(Continued)



Size		A	B*	Unit Weight Black
NPS/DN	NPS/DN	In./mm	In./mm	Lbs./kg
4 100	2 50	1 3/16 30	2 15/16 75	6.50 2.95
	2 1/2 65	1 3/16 30	3 1/8 79	7.78 3.53
	3 80	1 1/16 27	3 1/8 79	7.01 3.18
5 125	4 100	1 1/16 27	3 5/16 84	10.48 4.75
6 150	4 100	1 1/8 29	3 7/16 87	13.83 6.27
	5 125	1 1/8 29	3 9/16 90	15.53 7.04
8 200	6 150	1 1/4 32	3 7/8 98	29.10 13.20

Note:

* Dimension "B" does not conform to ASME standard.

See first page for pressure-temperature ratings.

Fig. 367 Concentric Reducer (Class 125 Standard)

General Assembly of Threaded Fittings

1 Inspect both male and female components prior to assembly.

- Threads should be free from mechanical damage, dirt, chips and excess cutting oil.
- Clean or replace components as necessary.

2 Application of thread sealant

- Use a thread sealant that is fast drying, sets-up to a semi hard condition and is vibration resistant. Alternately, an anaerobic sealant may be utilized.
- Throroughly mix the thread sealant prior to application.
- Apply a thick even coat to the male threads only. Best application is achieved with a brush stiff enough to force sealant down to the root of the threads.

3 Joint Makeup

- For sizes up to and including 2" pipe, wrench tight makeup is considered three full turns past handtight. Handtight engagement for ½" through 2" thread varies from 4½ turns to 5 turns.
- For 2½" through 4" sizes, wrench tight makeup is considered two full turns past handtight. Handtight engagement for 2½" through 4" thread varies from 5½ turns to 6¾ turns.