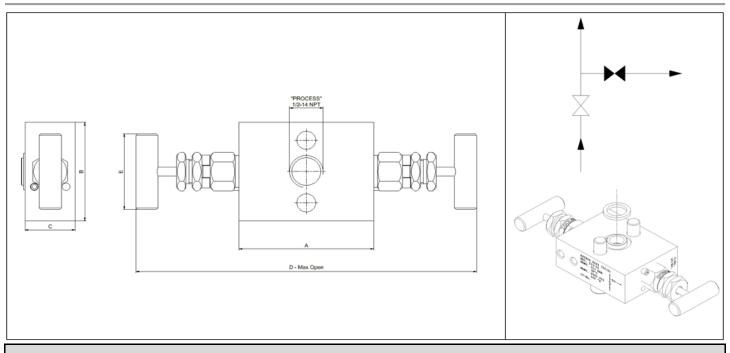


213 Series, Block/Bleed, Female x Flange (IEC, DIN)



Conformance Standards

NACE MR0175 / ISO 15156, NACE MR0103 / ISO 17495

CRN (Canadian Registration Number) Approved/Registered

ASTM B31.3 Process Piping, ASTM B16.34 Valves - Flanged, Threaded, and Welded End

MSS-SP-99 (ANSI)

End Connections						
	Process Inlet Connection	Instrument Connection	Vent / Test			
Standard	Female 1/2 NPT	Flange, IEC 61518-A	Female 1/4 NPT			
Optional	Female 1/4, 3/8 NPT Female BSPP "G" Thread BW SW Custom	Flange, IEC 61518-B DIN 19213	Female 1/2 NPT BSPP "G" Thread Custom			

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Orifice				
Standard	5MM (0.197 in.)			
Optional	Custom			

Mounting	
Standard	Yes (M8-6H)
Optional	Available upon request Note that body dimensions may change as a result

Materials of Construction						
Body / Bonnet	Stem	Standard Stem Tip	Optional Stem Tip			
316 / 316L	Kolsterised® 316 Ti	Non-Rotating Ball, Ceramic Al ₂ O ₃	Non-Rotating V-Tip, K-500			
Monel® 400	Monel® K-500	Non-Rotating Ball, Ceramic Al ₂ O ₃	Non-Rotating V-Tip, K-500			
Hastelloy® C-276	Hastelloy® C-276	Non-Rotating Ball, Ceramic Al ₂ O ₃	Non-Rotating V-Tip, C-276			
Duplex® F-51	Duplex® F-51	Non-Rotating Ball, Ceramic Al ₂ O ₃	Non-Rotating V-Tip, F-51			
Super Duplex® F-53	Super Duplex® F-53	Non-Rotating Ball, Ceramic Al ₂ O ₃	Non-Rotating V-Tip, F-53			



Bonnet Styles / Packing Materials ¹								
Bonnet Style	Stem Packing	Pressure / Max Temp						
	PTFE (Packing)	6 kpsi (413 bar)	6 kpsi (413 bar)/-76°F (-60°C)	3 kpsi (200 bar)/446°F 230°C				
Chandard	Viton® FKM (O- Ring)	6 kpsi (413 bar)	6 kpsi (413 bar)/-4°F (-20°C)	3 kpsi (200 bar) 392°F/ 200°C				
Standard	Grafoil (Packing)	6 kpsi (413 bar)	6 kpsi (413 bar)/-76°F (-60°C)	3 kpsi (200 bar)/752°F 400°C				
	Custom	-	-	-				
	PTFE (Packing)	10 kpsi (690 bar)	10 kpsi (413 bar)/-76°F (-60°C)	3 kpsi (200 bar)/446°F 230°C				
10.000 701	Viton® FKM (O- Ring)	10 kpsi (690 bar)	10 kpsi (413 bar)/-4°F (-20°C)	3 kpsi (200 bar) 392°F/ 200°C				
10,000 PSI	Grafoil (Packing)	10 kpsi (690 bar)	10 kpsi (413 bar)/-76°F (-60°C)	3 kpsi (200 bar) / 400°C				
	Custom	-	-	-				
	PTFE (Packing)	6 kpsi (413 bar)	6 kpsi (413 bar)/-76°F (-60°C)	3 kpsi (200 bar)/446°F 230°C				
Fugitive Emissions Shell FET 77/312 ISO 15848-2 TA Luft	Viton® FKM (O- Ring)	6 kpsi (413 bar)	6 kpsi (413 bar)/-4°F (-20°C)	3 kpsi (200 bar) 392°F/ 200°C				
	Custom	-	-	-				
Fire Safe API 607/BS 6755 Part 2	Supergraf Premier®	6 kpsi (413 bar)/-76°F (- 60°C)	6 kpsi (413 bar)/-76°F (-60°C)	3,000 psi (200 bar) /842°F 450°C				

^{**}More packing materials available upon request



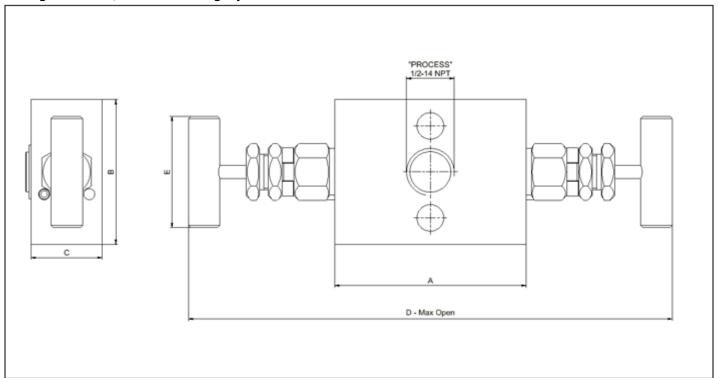
Footnotes

1. Packing material ratings based on manufacturer's specifications



Dimensional Measurements

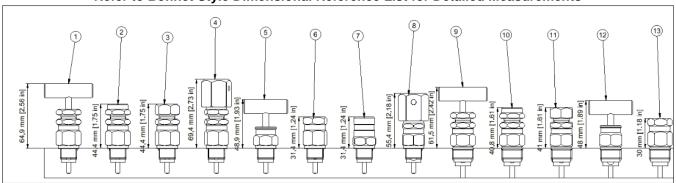
Drawing: 213 Series, Standard Packing Style Bonnet



Find Commontion Cine	Pressure	A	4		3	([)	E	≣	F	
End Connection Size	Rating	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
1/4", 1/2", 3/8" - Flange (IEC 61518-A)	413 bar / 6 kpsi	85	3.35	65	2.56	31.6	1.24	215	8.46	50	1.97		

^{*}Drawing Upon Request

Refer to Bonnet Style Dimensional Reference List for Detailed Measurements



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Bonnet Style Dimensional Reference List

Key	Bonnet Style	Max Height from Body
1	Standard Packing Bonnet	2.56 in (64.9 mm)
2	Standard Packing Bonnet, Anti-Tamper Vent	1.75 in (44.4 mm)
3	Standard Packing Bonnet, Anti-Tamper Equalize	1.75 in (44.4 mm)
4	Standard Packing Bonnet, Anti-Tamper, Locking Device	2.73 in (69.4 mm)
5	Standard O-Ring Bonnet	1.93 in (48.9 mm)
6	Standard O-Ring Bonnet, Anti-Tamper Vent	1.24 in (31.4 mm)
7	Standard O-Ring Bonnet, Anti-Tamper Equalize	1.24 in (31.4 mm)
8	Standard O-Ring Bonnet, Anti-Tamper, Locking Device	1.28 in (55.4 mm)
9	Fugitive Emissions Bonnet, Packing Style	2.42 in (61.5 mm)
10	Fugitive Emission Bonnet, Packing Style, Anti-Tamper Vent	1.61 in (40.8 mm)
11	Fugitive Emissions Bonnet, Packing Style, Anti-Tamper Equalize	1.61 in (40.8 mm)
12	Fugitive Emissions Bonnet, O-Ring Style	1.89 in (48.0 mm)
13	Fugitive Emissions Bonnet, O-Ring Style, Anti-Tamper Vent, Equalize	1.18 in (30.0 mm)

