

DOUBLE BLOCK & BLEED VALVE



INTEGRAL BODY DBB-NEEDLE & FLOAZTING BALL TYPE-GENERAL FEATURE



- Available connections are
- Threaded / Welded (BW or SW) / Hub / Flange
- Rating :150lb to 2500lb / API 1000psi
- Design : Single or Double with optional Bleed (SB-SBB-DB-DBB)
- Fire Safe design
- DBB meets ASME B16.5 pressure-temperature ratings for their flange end connecyion. Rating below are derived from ASME B16.5 table 2-2.2 and table II 2-2.2 for stainless steel F316

SPLIT BODY DBB-NEEDLE & FLOAZTING BALL TYPE-GENERAL FEATURE

- All features are same as Integral body DBB except body is split type. are



ASME150

ASME300

SIZE (in.)	RF	A BWE	RTJ	B	C	W.T (lbs)	SIZE (in.)	RF	A BWE	RTJ	B	C	W.T (lbs)
2"	312	378	334	98	106	81	2"	378	378	406	102	120	92
3"	355	496	376	127	130	165	3"	495	495	522	148	164	176
4"	401	534	422	165	130	330	4"	534	534	562	165	130	374
6"	690	800	711	235	288	455	6"	705	800	733	206	237	583
8"	800	912	823	239	288	660	8"	879	912	907	239	288	770
10"	933	978	956	277	326	1056	10"	994	978	1022	277	326	1166
12"	1068	1111	1089	316	364	1518	12"	1134	1111	1162	316	384	1681
14"	1201	1334	1223	341	395	2031	14"	1334	1334	1362	341	395	2321
16"	1334	1467	1356	383	437	2886	16"	1467	1467	1495	383	437	3247
18"	1512	1600	1533	417	471	3480	18"	1600	1600	1628	432	466	4490
20"	1600	1734	1622	454	508	4473	20"	1734	1734	1768	478	532	5925
24"	1867	2000	1890	529	590	6961	24"	2000	2000	2039	578	640	6961

Note:

The dimension of connecting flange can be design according to customer's requirements and the dimensions of above 300lb are available.

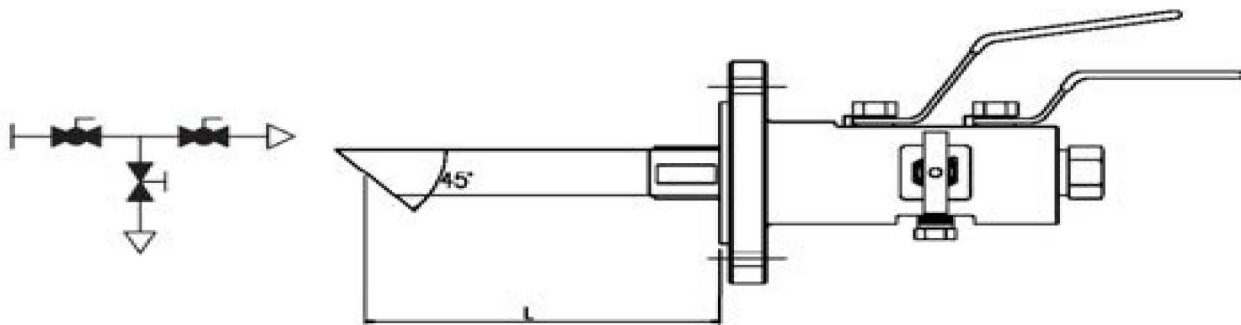
SAMPLING and INJECTION QUILL ASSEMBLY

Sampling and Injection quill can be added on to DBB valves for 1 1/2 in. and larger flanges or to Root Valves. The standard quill OD is 25mm and the lengths are customer specified. The quill features a length of heavy wall with a screwed connection into the DBB valve body

A. Sampling Application

The design has been developed to take a sample from the process stream at full system pressure, providing double block and bleed protection. The sampling valve quill draws process fluid from the flow stream at full pressure.

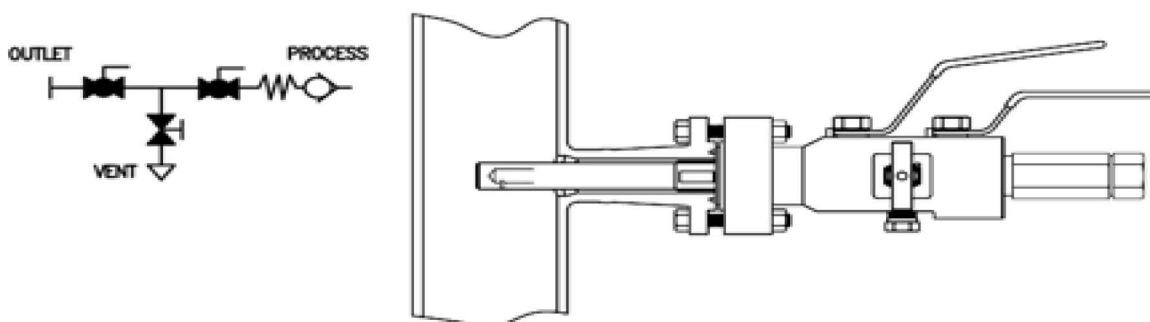
The quill is available in 45 degree as standard.

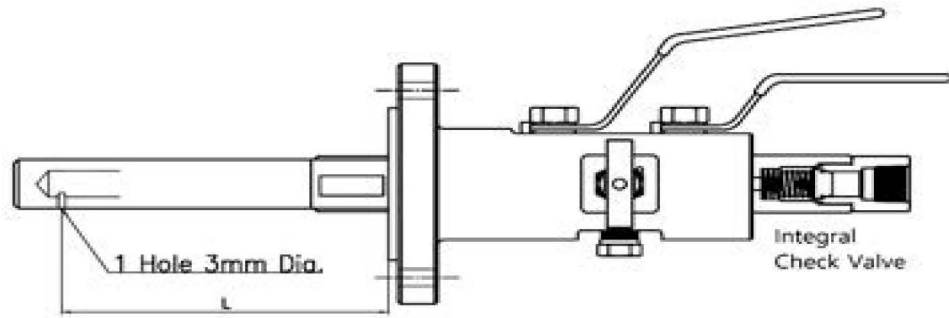


B. Injection Assembly

The design has been developed to inject directly liquids or gases into the optimum position of process stream at full system pressure, providing double block and bleed protection.

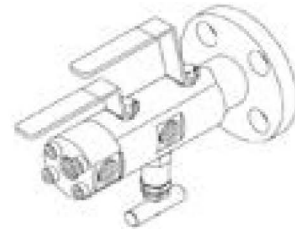
The integral check valve allows liquids or gases to be injected into the process stream while providing protection against back flow of process fluids. The poppet type spring return check valve is constructed with a standard FKM O-ring seal. The Injection orifice is built with a 3mm (0.125 in.) hole.





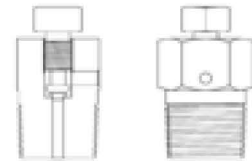
Bolted Outlet Option

Single flanged DBB valves features optional bolted Outlet connection where dual threaded 1/2 in. NPT female outlets or instrument kidney flange can be in place.



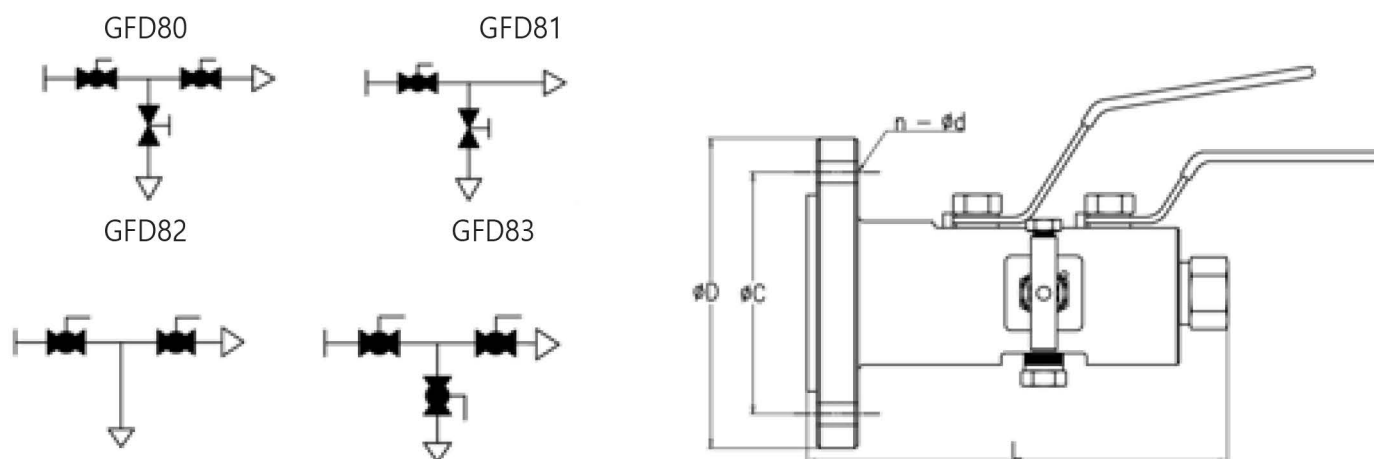
Vent Port Option

Other than standard 1/2 in. NPT female vent port, a bleed valve vent port can be supplied as an option



GFD Series Double Block Bleed Valve

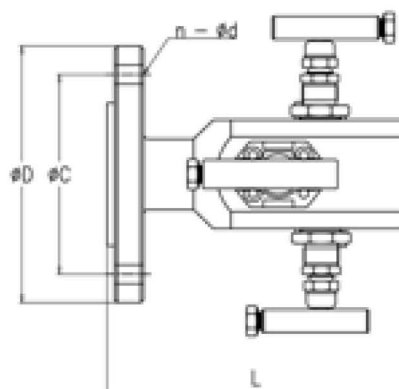
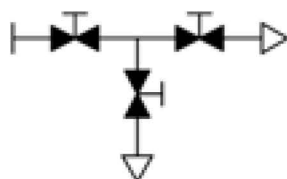
GFD80, GFD81, GFD82 & GFD83 Series



Ball Valve – Primary Block Type				
GFD Series	GFD80	GFD81	GFD82	GFD83
End Connections	Flanged x Threaded			
1st Block	Ball	Ball	Ball	Ball
Bleed	Needle	-	Needle	Ball
2nd Block	-	Ball	Ball	Ball

Rating lb	Size in.	Dimensions, mm					Number	Weight kg
		L		D	C	d	n	
		RF	RTJ					
150	1/2	188	-	90	60.3	16	4	3.6
	3/4	188	-	100	69.9	16	4	3.9
	1	178	183	110	79.4	16	4	4.0
	1 1/2	180	185	125	98.4	16	4	4.6
	2	183	188	150	120.7	19	4	6.6
300	1/2	188	193	95	66.7	16	4	3.9
	3/4	188	196	115	82.6	19	4	4.6
	1	180	185	125	88.9	19	4	4.6
	1 1/2	183	188	155	114.3	22	4	6.0
	2	185	192	165	127.0	19	8	8.0
600	1/2	188	196	95	66.7	16	4	4.0
	3/4	188	196	115	82.6	19	4	4.7
	1	180	188	125	88.9	19	4	4.7
	1 1/2	193	193	155	114.3	22	4	6.5
	2	196	197	165	127.0	19	8	8.3
900/ 1500	1/2	206	213	120	82.6	22	4	5.4
	3/4	206	213	130	88.9	22	4	6.3
	1	191	198	150	101.6	26	4	7.0
	1 1/2	203	203	180	123.8	29	4	9.4
	2	226	210	215	165.1	26	8	15.0
2500	1/2	206	213	135	88.9	22	4	6.9
	3/4	206	213	140	95.2	22	4	7.5
	1	206	206	160	108.0	26	4	8.6
	1 1/2	216	216	205	146.0	32	4	15.9
	2	221	223	235	171.4	29	8	22.0

GFD22, GFD23 & GFD13 Series

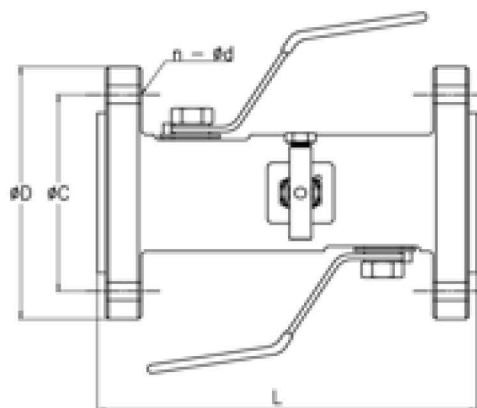
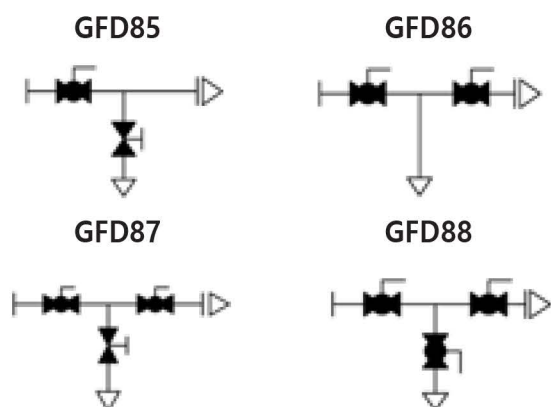


OS&Y – Primary Block Type		
GFD Series	GFD22	GFD23
End Connections	Flanged x Threaded	
1st Block	OS&Y	OS&Y
Bleed	Needle	OS&Y
2nd Block	Needle	OS&Y

Needle Valve – Primary Block Type	
GFD Series	GFD13
End Connections	Flanged x Threaded
1st Block	Needle
Bleed	Needle
2nd Block	Needle

Rating lb	Size in.	Dimensions, mm					Number	Weight kg
		L		D	C	d	n	
		RF	RTJ					
150	1/2	161	-	90	60.3	16	4	3.6
	3/4	161	-	100	69.9	16	4	3.9
	1	156	161	110	79.4	16	4	4.0
	1 1/2	159	164	125	98.4	16	4	4.6
	2	161	166	150	120.7	19	4	6.6
300	1/2	161	163	95	66.7	16	4	3.9
	3/4	161	165	115	82.6	19	4	4.6
	1	159	164	125	88.9	19	4	4.6
	1 1/2	162	167	155	114.3	22	4	6.0
	2	164	170	165	127.0	19	8	8.0
600	1/2	166	165	95	66.7	16	4	4.0
	3/4	166	165	115	82.6	19	4	4.7
	1	159	166	125	88.9	19	4	4.7
	1 1/2	170	170	155	114.3	22	4	6.5
	2	173	175	165	127.0	19	8	8.3
900/ 1500	1/2	184	184	120	82.6	22	4	5.4
	3/4	184	184	130	88.9	22	4	6.3
	1	169	177	150	101.6	26	4	7.0
	1 1/2	180	180	180	123.8	29	4	9.4
	2	186	188	215	165.1	26	8	15.0
2500	1/2	184	184	135	88.9	22	4	6.9
	3/4	184	184	140	95.2	22	4	7.5
	1	183	183	160	108.0	26	4	8.6
	1 1/2	193	194	205	146.0	32	4	15.9
	2	199	201	235	171.4	29	8	22.0

GFD85, GFD86, GFD87 & GFD88 Series



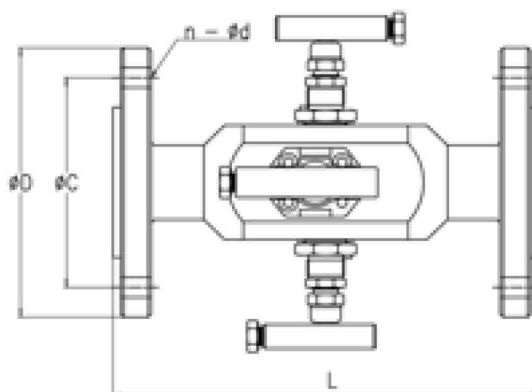
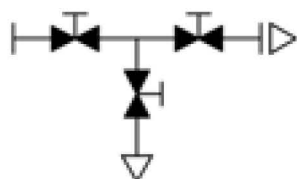
Ball Valve– Primary Block Type		
GFD Series	GFD85	GFD86
End Connections	Flanged x Flanged	
1st Block	Ball	Ball
Bleed	Needle	-
2nd Block	-	Ball

Ball Valve – Primary Block Type	
GFD Series	GFD87
End Connections	Flanged x Flanged
1st Block	Ball
Bleed	Needle
2nd Block	Ball

Ball Valve – Primary Block Type	
GFD Series	GFD88
End Connections	Flanged x Flanged
1st Block	Ball
Bleed	Ball
2nd Block	Ball

Rating lb	Size in.	Dimensions, mm					Number	Weight kg
		L		D	C	d	n	
		RF	RTJ					
150	1/2	208	-	90	60.3	16	4	4.3
	3/4	208	-	100	69.9	16	4	4.9
	1	180	189	110	79.4	16	4	5.0
	1 1/2	186	196	125	98.4	16	4	6.4
	2	189	199	150	120.7	19	4	9.9
300	1/2	208	221	95	66.7	16	4	5.0
	3/4	208	221	115	82.6	19	4	6.3
	1	186	196	125	88.9	19	4	6.3
	1 1/2	192	202	155	114.3	22	4	9.1
	2	196	208	165	127.0	19	8	11.9
600	1/2	208	221	95	66.7	16	4	5.2
	3/4	208	221	115	82.6	19	4	6.5
	1	199	199	125	88.9	19	4	6.5
	1 1/2	208	208	155	114.3	22	4	10.1
	2	215	218	165	127.0	19	8	13.4
900/ 1500	1/2	243	256	120	82.6	22	4	7.9
	3/4	243	256	130	88.9	22	4	9.5
	1	221	221	150	101.6	26	4	11.2
	1 1/2	227	227	180	123.8	29	4	16.0
	2	240	243	215	165.1	26	8	27.2
2500	1/2	243	256	135	88.9	22	4	10.8
	3/4	243	256	140	95.2	22	4	12.0
	1	234	234	160	108.0	26	4	14.3
	1 1/2	253	256	205	146.0	32	4	27.8
	2	265	268	235	171.4	29	8	40.0

GFD18 & GFD27 Series



Needle Valve – Primary Block Type GFD18 Series	
End Connections	Flanged x Flanged
1st Block	Needle
Bleed	Needle
2nd Block	Needle

OS&Y – Primary Block Type GFD27 Series	
End Connections	Flanged x Flanged
1st Block	OS&Y
Bleed	Needle
2nd Block	Needle

Rating lb	Size in.	Dimensions, mm					Number	Weight kg
		L		D	C	d	n	
		RF	RTJ					
150	1/2	197	-	90	60.3	16	4	4.3
	3/4	197	-	100	69.9	16	4	4.9
	1	180	189	110	79.4	16	4	5.0
	1 1/2	186	196	125	98.4	16	4	6.4
	2	189	199	150	120.7	19	4	9.9
300	1/2	197	206	95	66.7	16	4	5.0
	3/4	197	206	115	82.6	19	4	6.3
	1	186	196	125	88.9	19	4	6.3
	1 1/2	192	202	155	114.3	22	4	9.1
	2	196	208	165	127.0	19	8	11.9
600	1/2	206	206	95	66.7	16	4	5.2
	3/4	206	206	115	82.6	19	4	6.5
	1	199	199	125	88.9	19	4	6.5
	1 1/2	208	208	155	114.3	22	4	10.1
	2	215	218	165	127.0	19	8	13.4
900/ 1500	1/2	243	243	120	82.6	22	4	7.9
	3/4	243	243	130	88.9	22	4	9.5
	1	221	221	150	101.6	26	4	11.2
	1 1/2	227	227	180	123.8	29	4	16.0
	2	240	243	215	165.1	26	8	27.2
2500	1/2	243	243	135	88.9	22	4	10.8
	3/4	243	243	140	95.2	22	4	12.0
	1	234	234	160	108.0	26	4	14.3
	1 1/2	253	256	205	146.0	32	4	27.8
	2	265	268	235	171.4	29	8	39.0

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