

MW Flushing Ring



|| Introduction ||

The flushing ring is a component of fluid piping systems installed between instrumentation and pipelines. Its primary function is to clean the measuring flange diaphragm, preventing errors caused by the attachment of liquid or impurities, thereby enhancing the accuracy and reliability of the transmitter. It facilitates fluid flushing, cleaning, and draining functions to ensure a favorable medium environment on the instrument diaphragm surface. The MW flushing ring catalog includes flushing ring and flushing ring with mounted valve(s).

|| Functions ||

Flushing ring

- Equipped with open/closed flushing bores (with plug screws) to facilitate inlet and outlet of flushing media.

Flushing ring with mounted valve

- Equipped with open/closed flushing bores (with plug screws) to selectively allow or block internal media output. The inlet side is fitted with a manual valve to regulate the flow of flushing media by adjusting the valve opening, to accommodate flushing requirements.

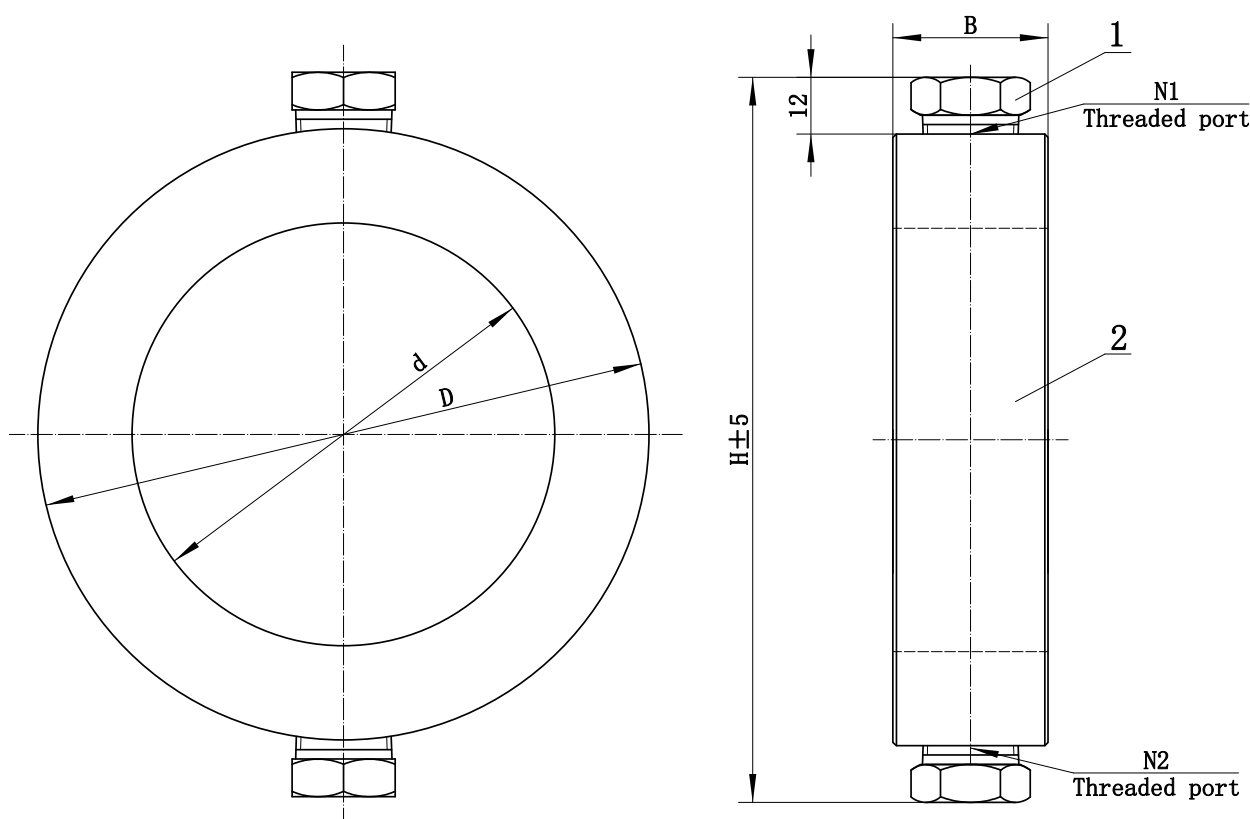
Flushing ring with mounted valves

- Equipped with manual valves at both inlet and outlet sides to regulate the flow of flushing media at both sides by adjusting the valve opening, to accommodate flushing requirements.

|| Dimensions ||

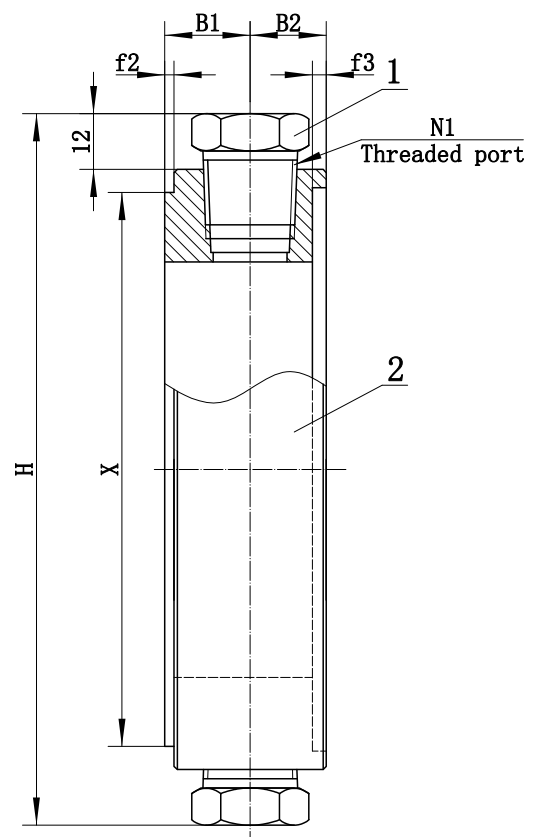
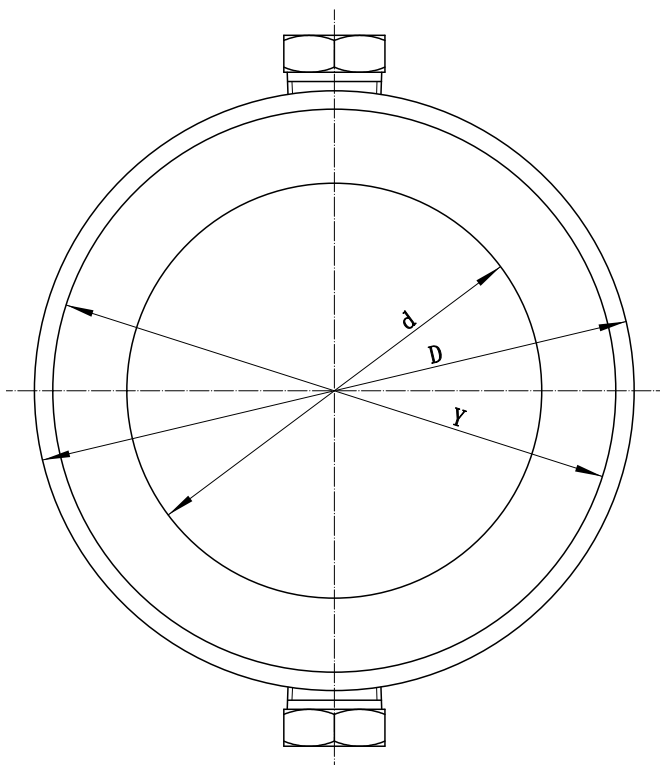
Unit: mm

Flushing Ring 1



Applicable range		N1	N2	D	d	B	H
DN25 NPS1	PN10~PN100 Class150~Class600	1/4-18NPT		62	30	30	86
		1/2-14NPT			28	33	
DN50 NPS2	PN10~PN100 Class150~Class600	1/4-18NPT		100	60	30	124
		1/2-14NPT				33	
DN80 NPS3	PN10~PN100 Class150~Class600	1/4-18NPT		130	90	30	154
		1/2-14NPT				33	
DN100 NPS4	PN10~PN100	1/4-18NPT		160	110	30	184
		1/2-14NPT				33	
	Class150~Class600	1/4-18NPT		170		30	194
		1/2-14NPT				33	
Applicable flange sealing face: RF							

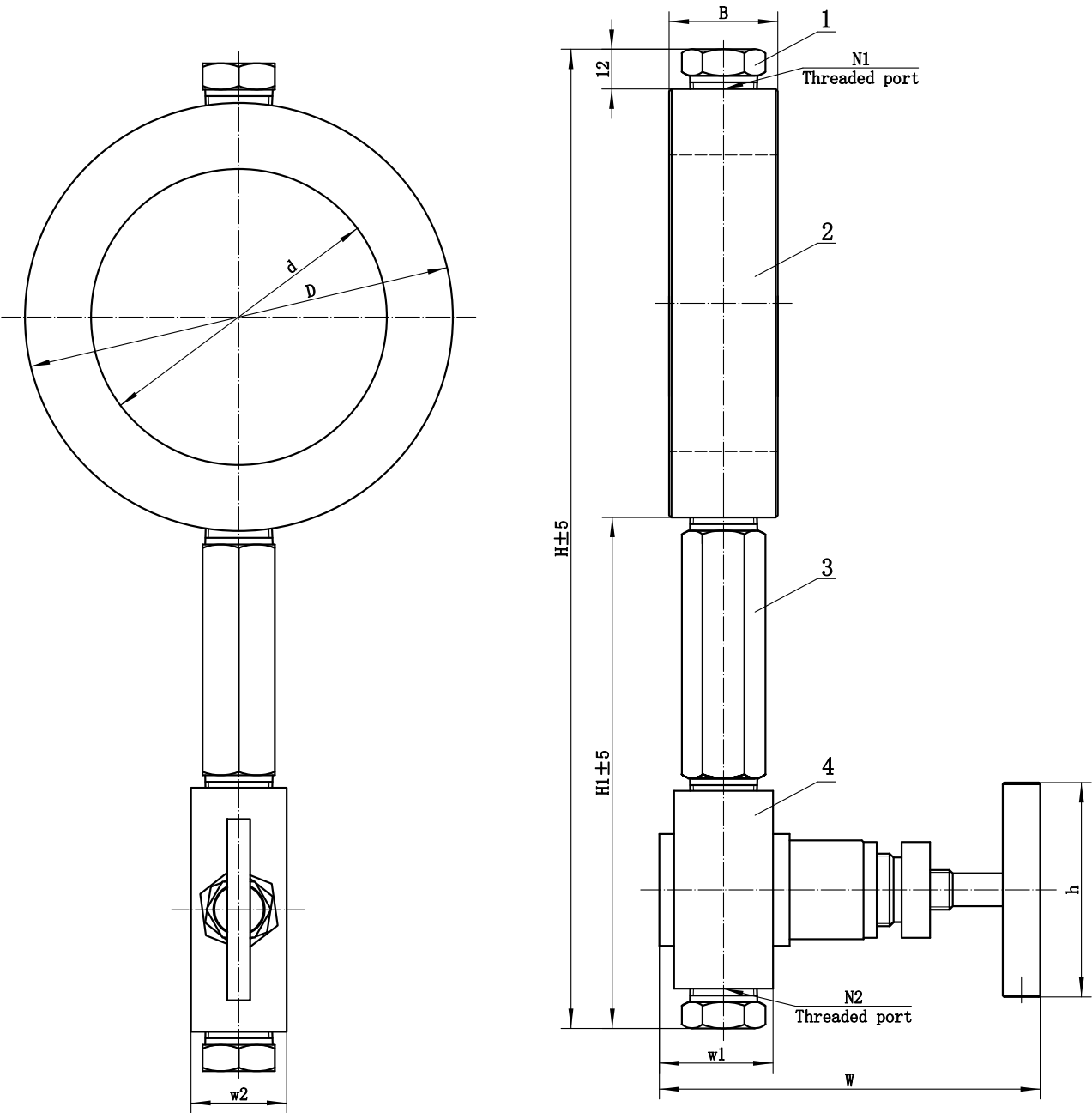
Flushing Ring 2



Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	H
DN25	PN10~PN100	1/4-18NPT		68	30	57	58	4.5	4	18.5	20.5	92
		1/2-14NPT			28			4.5	4	20	22	
DN50	PN10~PN100	1/4-18NPT		102	60	87	88	4.5	4	18.5	20.5	126
		1/2-14NPT						4.5	4	20	22	
DN80	PN10~PN100	1/4-18NPT		138	90	120	121	4.5	4	18.5	20.5	162
		1/2-14NPT						4.5	4	20	22	
DN100	PN10~PN100	1/4-18NPT		162	110	149	150	5	4.5	18.5	20.5	186
		1/2-14NPT						5	4.5	20	22	
Applicable flange sealing face: M, FM												
See the next continuation table.												

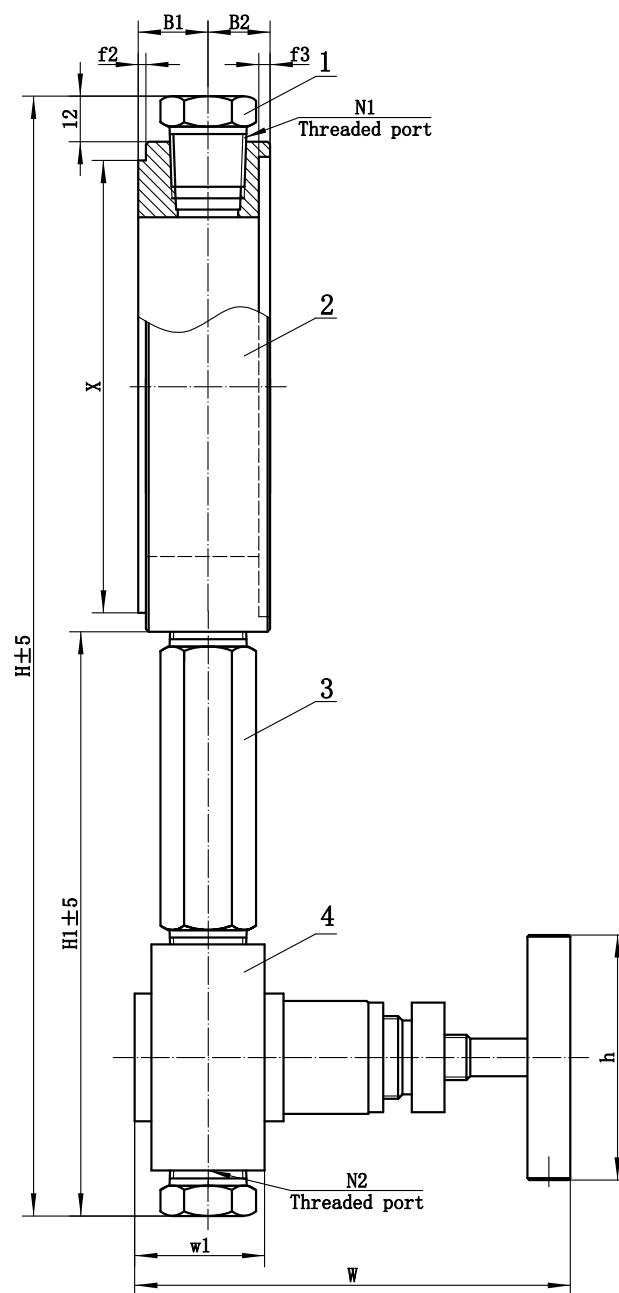
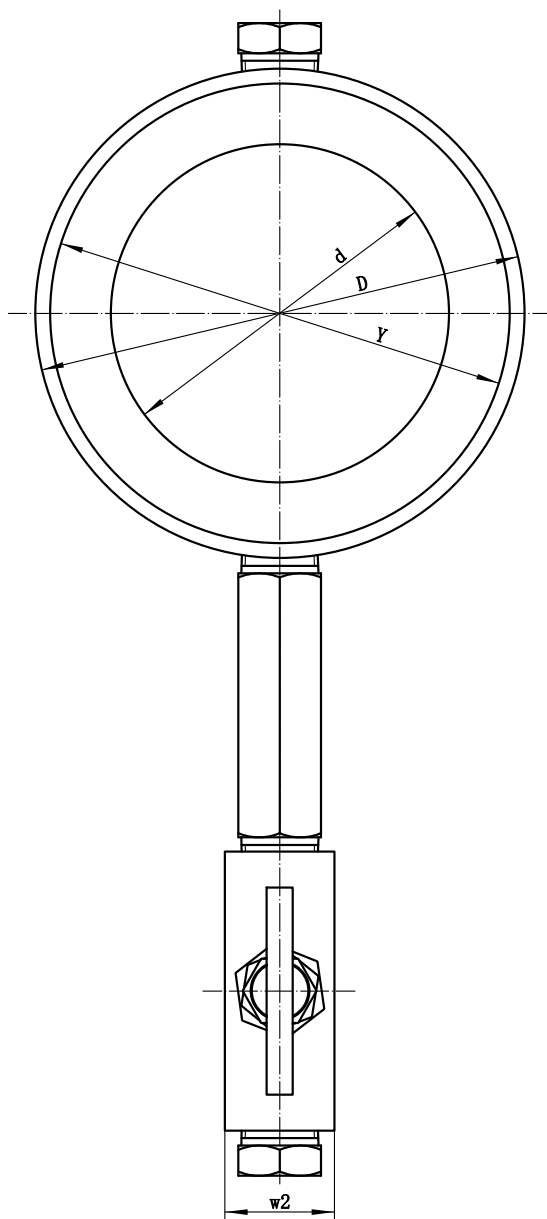
Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	H
NPS1	Class300~Class600	1/4-18NPT		62	30	50.8	52.4	5	5	18.5	20.5	86
		1/2-14NPT			28			5	5	20	22	
NPS2	Class300~Class600	1/4-18NPT		103	60	92.1	93.7	5	5	18.5	20.5	127
		1/2-14NPT						5	5	20	22	
NPS3	Class300~Class600	1/4-18NPT		138	90	127	128.6	5	5	18.5	20.5	162
		1/2-14NPT						5	5	20	22	
NPS4	Class300~Class600	1/4-18NPT		168	110	157.2	158.8	5	5	18.5	20.5	192
		1/2-14NPT						5	5	20	22	
Applicable flange sealing face: M, FM												

Flushing Ring with Mounted Valve 1



Applicable range		N1	N2	D	d	B	W1	W2	h	H1	H	W
DN25 NPS1	PN10~PN100 Class150~Class600	1/4-18NPT		62	30	30	24	21	55	153	227	76
		1/2-14NPT			28	33	30	29	65	155	229	96
DN50 NPS2	PN10~PN100 Class150~Class600	1/4-18NPT		100	60	30	24	21	55	153	227	76
		1/2-14NPT				33	30	29	65	155	229	96
DN80 NPS3	PN10~PN100 Class150~Class600	1/4-18NPT		130	90	30	24	21	55	153	227	76
		1/2-14NPT				33	30	29	65	155	229	96
DN100 NPS4	PN10~PN100	1/4-18NPT		160	110	30	24	21	55	153	227	76
		1/2-14NPT				33	30	29	65	155	229	96
	Class150~Class600	1/4-18NPT		170		30	24	21	55	153	227	76
		1/2-14NPT				33	30	29	65	155	229	96
Applicable flange sealing face: RF												

Flushing Ring with Mounted Valve 2



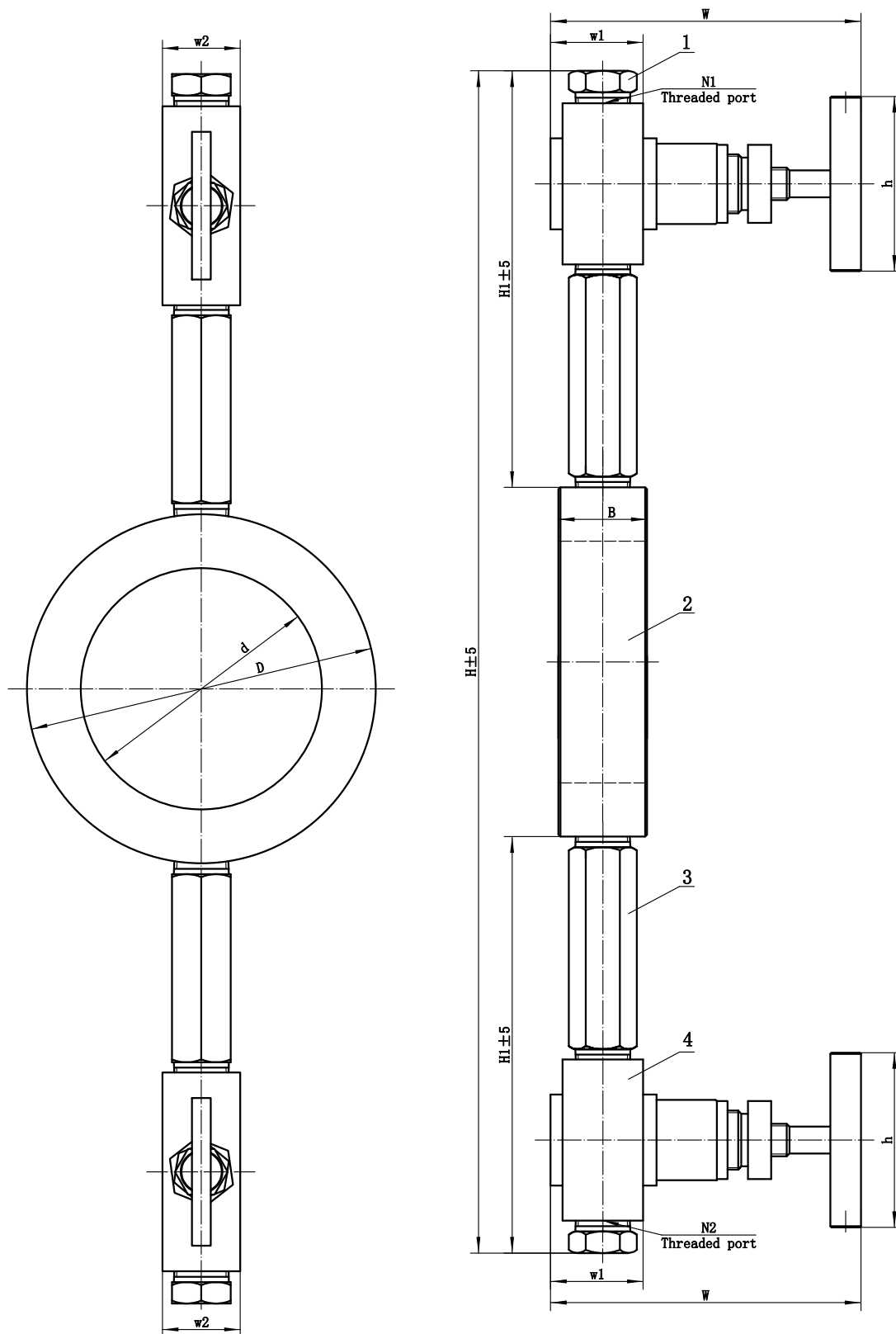
Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	W1
DN25	PN10~PN100	1/4-18NPT		68	30	57	58	4.5	4	18.5	20.5	24
		1/2-14NPT			28			4.5	4	20	22	30
DN50	PN10~PN100	1/4-18NPT		102	60	87	88	4.5	4	18.5	20.5	24
		1/2-14NPT						4.5	4	20	22	30
DN80	PN10~PN100	1/4-18NPT		138	90	120	121	4.5	4	18.5	20.5	24
		1/2-14NPT						4.5	4	20	22	30
DN100	PN10~PN100	1/4-18NPT		162	110	149	150	5	4.5	18.5	20.5	24
		1/2-14NPT						5	4.5	20	22	30
Applicable flange sealing face: M, FM												

W2	h	H1	H	W
21	55	153	233	76
29	65	155	235	96
21	55	153	267	76
29	65	155	269	96
21	55	153	269	76
29	65	155	305	96
21	55	153	327	76
29	65	155	329	96

Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	W1
NPS1	Class300~Class600	1/4-18NPT		62	30	50.8	58	5	5	18.5	20.5	24
		1/2-14NPT			28			5	5	20	22	30
NPS2	Class300~Class600	1/4-18NPT		103	60	93.7	88	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
NPS3	Class300~Class600	1/4-18NPT		138	90	128.6	121	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
NPS4	Class300~Class600	1/4-18NPT		168	110	158.8	150	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
Applicable flange sealing face: M, FM												

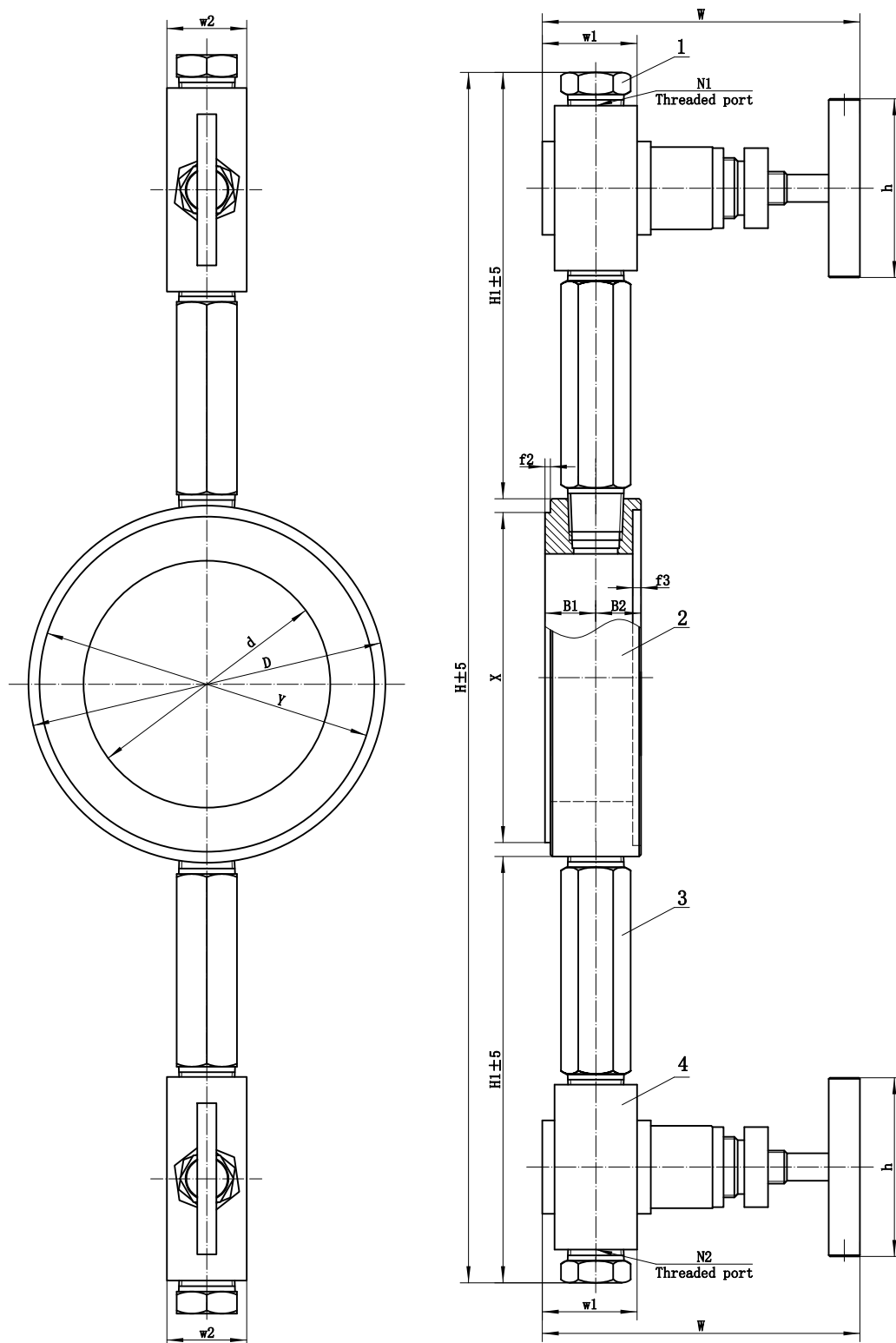
W2	h	H1	H	W
21	55	153	227	76
29	65	155	229	96
21	55	153	268	76
29	65	155	270	96
21	55	153	303	76
29	65	155	305	96
21	55	153	333	76
29	65	155	335	96

Flushing Ring with Mounted Valves 1



Applicable range		N1	N2	D	d	B	W1	W2	h	H1	H	W
DN25 NPS1	PN10~PN100 Class150~Class600	1/4-18NPT		62	30	30	24	21	55	153	368	76
		1/2-14NPT			28	33	30	29	65	155	372	96
DN50 NPS2	PN10~PN100 Class150~Class600	1/4-18NPT		100	60	30	24	21	55	153	406	76
		1/2-14NPT				33	30	29	65	155	410	96
DN80 NPS3	PN10~PN100 Class150~Class600	1/4-18NPT		130	90	30	24	21	55	153	436	76
		1/2-14NPT				33	30	29	65	155	440	96
DN100 NPS4	PN10~PN100	1/4-18NPT		160	110	30	24	21	55	153	466	76
		1/2-14NPT				33	30	29	65	155	470	96
	Class150~Class600	1/4-18NPT		170		30	24	21	55	153	476	76
		1/2-14NPT				33	30	29	65	155	480	96
Applicable flange sealing face: RF												

Flushing Ring with Mounted Valves 2



Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	W1
DN25	PN10~PN100	1/4-18NPT		68	30	57	58	4.5	4	18.5	20.5	24
		1/2-14NPT			28			4.5	4	20	22	30
DN50	PN10~PN100	1/4-18NPT		102	60	87	88	4.5	4	18.5	20.5	24
		1/2-14NPT						4.5	4	20	22	30
DN80	PN10~PN100	1/4-18NPT		138	90	120	121	4.5	4	18.5	20.5	24
		1/2-14NPT						4.5	4	20	22	30
DN100	PN10~PN100	1/4-18NPT		162	110	149	150	5	4.5	18.5	20.5	24
		1/2-14NPT						5	4.5	20	22	30
Applicable flange sealing face: M, FM												

W2	h	H1	H	W
21	55	153	374	76
29	65	155	378	96
21	55	153	408	76
29	65	155	412	96
21	55	153	444	76
29	65	155	448	96
21	55	153	468	76
29	65	155	472	96

Applicable range		N1	N2	D	d	X	Y	f2	f3	B1	B2	W1
NPS1	Class300~Class600	1/4-18NPT		62	30	50.8	52.4	5	5	18.5	20.5	24
		1/2-14NPT			28			5	5	20	22	30
NPS2	Class300~Class600	1/4-18NPT		103	60	93.7	88	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
NPS3	Class300~Class600	1/4-18NPT		138	90	128.6	121	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
NPS4	Class300~Class600	1/4-18NPT		168	110	158.8	150	5	5	18.5	20.5	24
		1/2-14NPT						5	5	20	22	30
Applicable flange sealing face: M, FM												

W2	h	H1	H	W
21	55	153	368	76
29	65	155	372	96
21	55	153	409	76
29	65	155	413	96
21	55	153	444	76
29	65	155	448	96
21	55	153	474	76
29	65	155	478	96

MW Flushing Ring

Items	Code	Description
Flange standards	2	HG/T20592
	1	EN1092-1
	5	HG/T20615
	6	ANSI/ASME B16.5
Flange diameter	Applicable standards	
	A	DN25
	B	DN50
	C	DN80
	D	DN100
	1	1-in
	2	2-in
	3	3-in
	4	4-in
Pressure rating	Applicable standards	
	1	PN10/PN16
	2	PN25/PN40
	3	PN63
	4	PN100
	A	Class 150
	B	Class 300
	C	Class 600
Flushing ring	6	316 SS
Flange sealing face (Instrument)	1	RF Raised face(Instrument - RF Raised face)
	B	FM Female face (Instrument - M Male face)
	A	M Male face (Instrument - FM Female face)
	C	RJ Ring joint face (Instrument - RJ Ring joint face)
Flange sealing face (Process)	1	RF Raised face
	A	FM Female face
	B	M Male face
	C	RJ Ring joint face
Specifications and quantity of flushing bores	A	1/4-18NPT(F), 2
	B	1/2-14NPT(F), 2

Accessories	1	Plug screw ×2 , mounting thread 1/4-18NPT, 316 SS
	2	Plug screw ×2 , mounting thread 1/2-14NPT, 316 SS
	3	Extension tube ×1 , shut-off valve ×1, plug screw ×2, mounting thread 1/4-18NPT, 316 SS
	4	Extension tube ×1 , shut-off valve ×1, plug screw ×2, mounting thread 1/2-14NPT, 316 SS
	5	Extension tube ×2 , shut-off valve ×2, plug screw ×2, mounting thread 1/4-18NPT, female 1/4-18NPT , 316 SS
	6	Extension tube ×2 , shut-off valve ×2, plug screw ×2, mounting thread 1/2-14NPT, female 1/2-14NPT , 316 SS
Options	Description(Detailed specifications as following, multiple options or null)	
Sealing gasket	/SE1	Metal gasket
	/SE2	PTFE gasket, applicable pressure ≤ PN16
	/SE8	Octagonal gasket, 304 SS, applicable to RJ sealing face
Bolts	/BL1	Bolts, nuts, and other components, carbon steel, high static pressure applications
	/BL6	Bolts, nuts, and other components, 316 SS
Oil-free treatment	/CL1	Degreasing and cleaning treatment of the wetted parts