

DFS Series

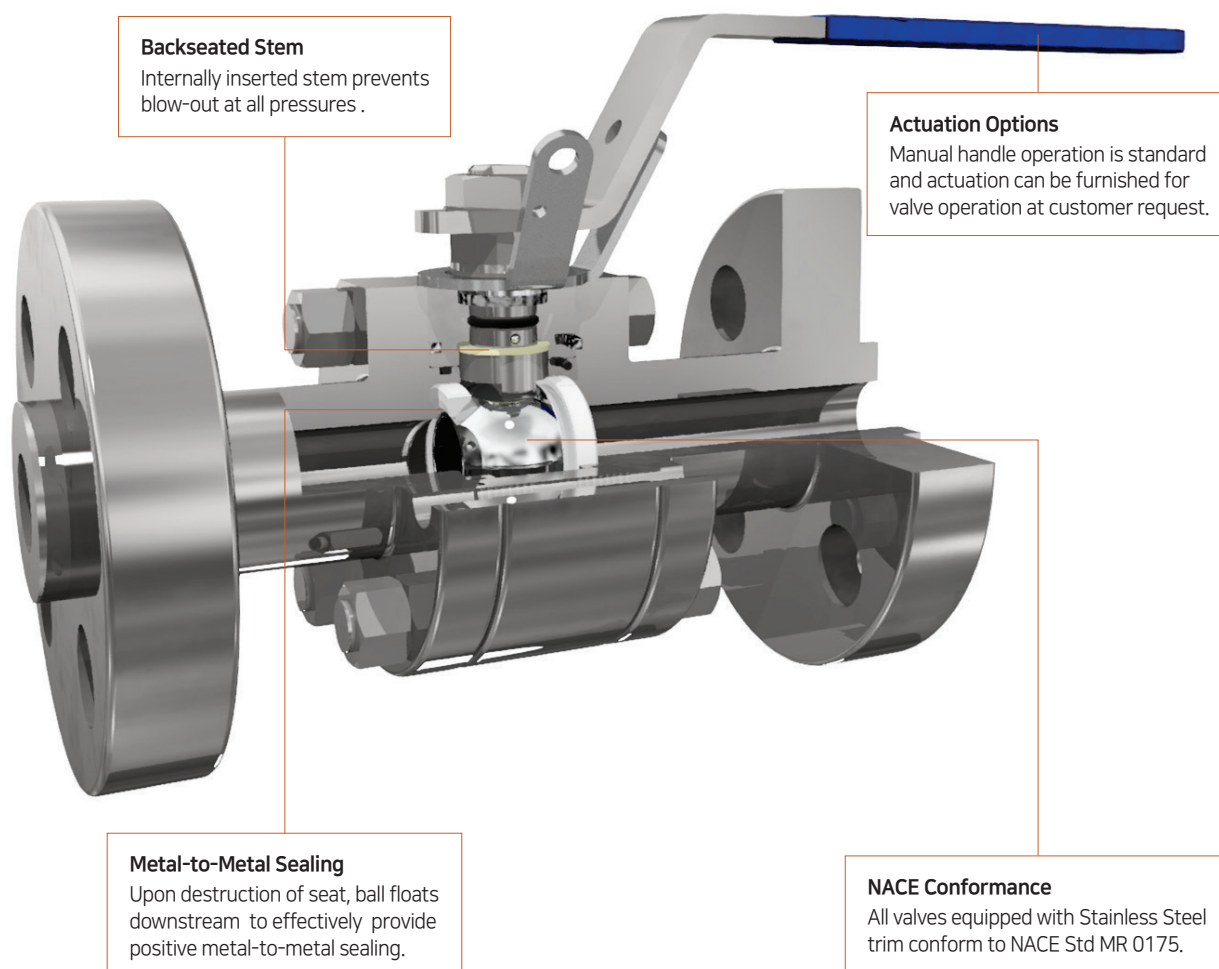
"Split-Body, Free Floating Ball, Soft Seated & Forged Valves"

FEATURES

- Basic design : **API 6D, API 608** and **ISO 17292**
- Split-body & side entry design
- Blow out-proof stem construction
- Anti-static design
- Locking device
- Micro-finished ball for long service life
- Ball includes pressure equalization hole to prevent trapped pressure in body cavity
- Full & Reduced port
- Size range : NPS 1/2(DN 15) to NPS 2(DN 50)
- Pressure rating : **ASME** Class 150 to 2500
- Graphite gasket and Stem packing prevent post-fire external leakage.
- Post-fire metal-to-metal seal prevents internal leakage after fire.
- Fire-safe design : **API 607/ ISO 10497** or **API 6FA**



Model	Class	Size-Range
DFS	150 to 2500	1/2" to 2"



* This is an illustrated of a typical full port, Split-body(Three-piece), floating type ball valve exhibiting the basic design concept.

* The actual design of a valve may be slightly different from this illustration, depending on its size and pressure class.

STANDARD MATERIALS

- Body : Carbon Steel (A105, LF2), Stainless Steel (F304, F316)
- Ball : Stainless Steel (F304, F316)
- Stem : SS304, SS316
- Seat : PTFE, RTFE, Modified TFE



SPECIFICATIONS

Construction

Class 150/300 ; Split-body(2-piece), Side entry, Full/Reduced port, Free floating ball, "Fire-safe" designed to **API 607/ISO 10497** or **API 6FA** Blow out proof stem, Anti-static device, Cavity relieving seats.

Valves are designed to **API 6D, ASME B16.34, API 608** and **ISO 17292/BS 5351** Specifications.

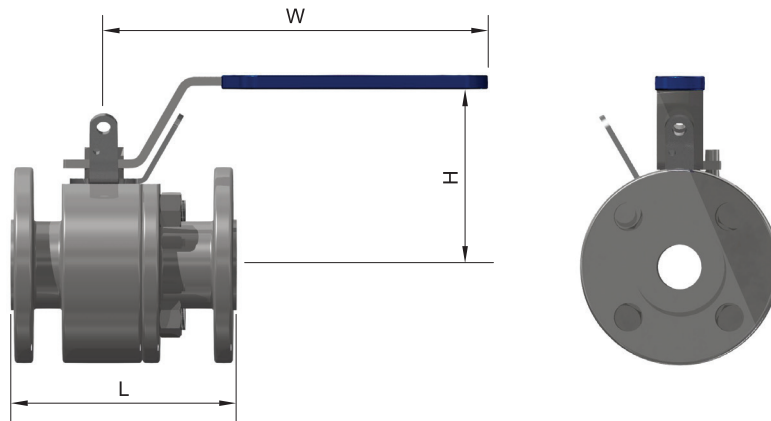
Manufactured and confirms to NACE standard **MR 0175**

Test pressure (psig / CS material)

ASME Class	Max. Working pressure	Shell (Hydro.)	Seat (Hydro. / Air)
Class 150	285	450	325 / 80
Class 300	740	1125	825 / 80

DIMENSIONS

CLASS 150 & 300



Valve Size			1/2"x3/8"	1/2"	3/4"x1 1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	2"
Class 150	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	4.25	4.25	4.61	4.61	5.00	5.00	6.50	6.50	7.01	7.01
		mm	108	108	117	117	127	127	165	165	178	178
	H	inch	3.66	3.66	3.66	3.94	3.94	4.13	4.13	4.92	4.92	5.31
		mm	93	93	93	100	100	105	105	125	125	135
	W	inch	5.12	5.12	5.12	7.09	7.09	8.46	8.46	9.65	9.65	10.63
		mm	130	130	130	180	180	215	215	245	245	270
	Approx. Weight	lb	6.2	6.6	7.7	8.8	10.8	14.3	19.8	23.6	39.7	46.3
		kg	2.8	3.0	3.5	4.0	4.9	6.5	9.0	10.7	18.0	21.0
Class 300	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	5.51	5.51	5.98	5.98	6.50	6.50	7.48	7.48	8.50	8.50
		mm	140	140	152	152	165	165	190	190	216	216
	H	inch	3.66	3.66	3.66	3.94	3.94	4.13	4.13	4.92	4.92	5.31
		mm	93	93	93	100	100	105	105	125	125	135
	W	inch	5.12	5.12	5.12	7.09	7.09	8.46	8.46	9.65	9.65	10.63
		mm	130	130	130	180	180	215	215	245	245	270
	Approx. Weight	lb	7.7	8.4	9.9	11.0	13.2	17.6	26.5	29.5	49.6	79.4
		kg	3.5	3.8	4.5	5.0	6.0	8.0	12.0	13.4	22.5	36.0

DFS Series

"Split-Body, Free Floating Ball, Soft Seated & Forged Valves"

STANDARD MATERIALS

- Body : Carbon Steel (A105, LF2), Stainless Steel (F304, F316)
- Ball : Stainless Steel (F304, F316)
- Stem : SS304, SS316
- Seat : PTFE, RTFE, Modified TFE, NYLON/ DEVLON, PEEK



SPECIFICATIONS

Construction

Class 600 to 2500 ; Split-body(3-piece), Side entry, Full/Reduced port, Free floating ball, "Fire-safe" designed to **API 607/ISO 10497** or **API 6FA** Blow out proof stem, Anti-static device, Cavity relieving seats.

Valves are designed to **API 6D**, **ASME B16.34**, **API 608** and **ISO 17292/BS 5351** Specifications.

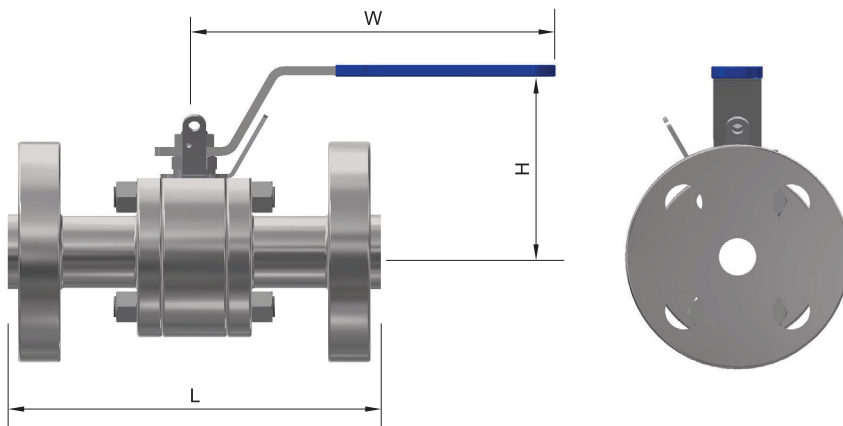
Manufactured and confirms to **NACE** standard **MR 0175**

Test pressure (psig / CS material)

ASME Class	Max. Working pressure	Shell (Hydro.)	Seat (Hydro. / Air)
Class 600	1480	2225	1650/ 80
Class 900	2220	3350	2450/ 80
Class 1500	3705	1175	4100/ 80
Class 2500	6170	9275	6800/ 80

DIMENSIONS

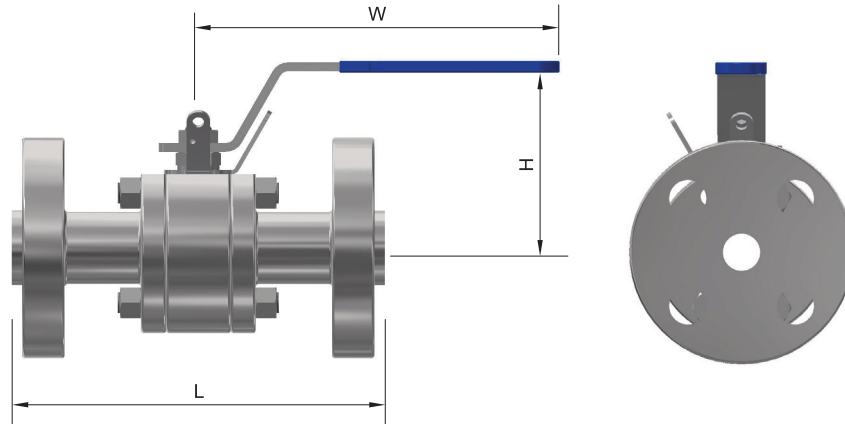
CLASS 600



Valve Size			1/2"x3/8"	1/2"	3/4"x1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	2"
Class 600	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	6.50	6.50	7.48	7.48	8.50	8.50	9.49	9.49	11.50	11.50
		mm	165	165	190	190	216	216	241	241	292	292
	H	inch	3.74	3.74	3.74	4.13	4.13	4.33	4.33	5.12	5.12	5.51
		mm	95	95	95	105	105	110	110	130	130	140
	W	inch	7.09	7.09	7.09	8.46	8.46	9.06	9.06	9.65	9.65	10.63
		mm	180	180	180	215	215	230	230	245	245	270
	Approx. Weight	lb	11.7	13.2	17.6	18.7	19.8	26.5	39.7	44.1	75.0	101.4
		kg	5.3	6.0	8.0	8.5	9.0	12.0	18.0	20.0	34.0	46.0

DIMENSIONS

CLASS 900 TO 2500



Valve Size			1/2"x3/8"	1/2"	3/4"x1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	2"
CLASS 900/1500	ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	8.50	8.50	9.02	9.02	10.00	10.00	12.01	12.01	14.49	14.49
		mm	216	216	229	229	254	254	305	305	368	368
	H	inch	4.06	4.21	4.21	4.53	4.53	4.92	4.92	5.71	5.71	6.30
		mm	103	107	107	115	115	125	125	145	145	160
	W	inch	8.46	8.46	8.46	9.65	9.65	9.65	9.65	10.63	10.63	13.78
		mm	215	215	215	245	245	245	245	270	270	350
	Approx. Weight	lb	22.0	23.1	24.3	27.6	30.9	37.5	55.1	81.6	92.6	110.2
		kg	10.0	10.5	11.0	12.5	14.0	17.0	25.0	37.0	42.0	50.0

Valve Size			1/2"x3/8"	1/2"	3/4"x1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	
CLASS 2500	ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	
		mm	11	13	13	19	19	25	25	38	38	
	L	inch	10.39	10.39	10.75	10.75	12.13	12.13	15.12	15.12	17.76	
		mm	264	264	273	273	308	308	384	384	451	
	H	inch	5.12	5.35	5.35	6.14	59.69	6.65	6.65	7.01	7.01	
		mm	130	136	136	156	1516	169	169	178	178	
	W	inch	10.63	10.63	10.63	13.78	13.78	15.75	15.75	19.69	19.69	
		mm	270	270	270	350	350	400	400	500	500	
	Approx. Weight	lb	33.1	36.4	40.8	44.1	60.6	70.5	105.8	114.6	147.7	
		kg	15.0	16.5	18.5	20.0	27.5	32.0	48.0	52.0	67.0	

SFS Series

"Split-Body, Free Floating Ball, Soft Seated & Forged Valves"

STANDARD MATERIALS

- Body : Carbon Steel (A105, LF2), Stainless Steel (F304, F316)
- Ball : Stainless Steel (F304, F316)
- Stem : SS304, SS316
- Seat : PTFE, RTFE, Modified TFE, NYLON/ DEVLON, PEEK



SPECIFICATIONS

Construction

Class 800/1500 ; Split-body(3-piece), Side entry, Full/Reduced port, Free floating ball, **Screwed Ends**, "Fire-safe" designed to **API 607/ISO 10497 or API 6FA** Blow out proof stem, Anti-static device, Cavity relieving seats.

Valves are designed to **API 6D, ASME B16.34, API 608** and **ISO 17292/BS 5351** Specifications.

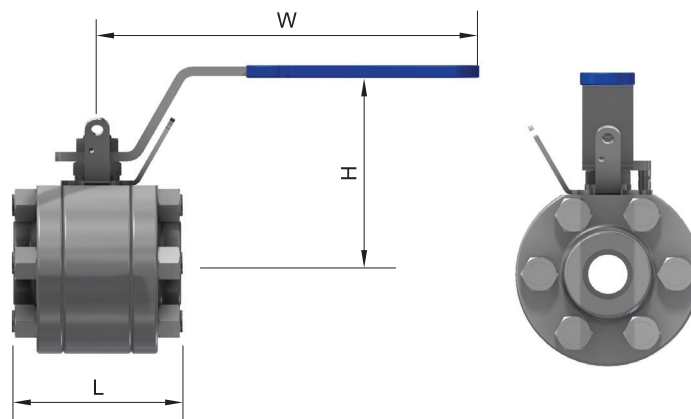
Manufactured and confirms to **NACE** standard **MR 0175**

Test pressure (psig / CS material)

ASME Class	Max. Working pressure	Shell (Hydro.)	Seat (Hydro. / Air)
Class 800	2000	3000	2200/ 80
Class 1500	3705	1175	4100/ 80

DIMENSIONS

CLASS 800 & 1500



Valve Size			1/2"x3/8"	1/2"	3/4"x1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	2"
Class 800	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	3.54	3.54	3.94	3.94	4.53	4.53	5.12	5.12	6.30	6.30
		mm	90	90	100	100	115	115	130	130	160	160
	H	inch	3.94	4.13	4.13	4.33	4.33	4.53	4.53	4.92	4.92	5.51
		mm	100	105	105	110	110	115	115	125	125	140
	W	inch	7.09	7.09	7.09	8.46	8.46	9.06	9.06	9.65	9.65	10.63
		mm	180	180	180	215	215	230	230	245	245	270
	Approx. Weight	lb	3.3	4.4	5.5	7.1	8.4	11.0	12.1	16.5	18.7	26.5
		kg	1.5	2.0	2.5	3.2	3.8	5.0	5.5	7.5	8.5	12.0
Class 1500	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L	inch	3.94	3.94	4.33	4.33	4.92	4.92	5.51	5.51	6.69	6.69
		mm	100	100	110	110	125	125	140	140	170	170
	H	inch	4.33	4.53	4.53	4.72	4.72	4.92	4.92	5.31	5.31	5.91
		mm	110	115	115	120	120	125	125	135	135	150
	W	inch	8.46	8.46	8.46	9.65	9.65	9.65	9.65	10.63	10.63	13.78
		mm	215	215	215	245	245	245	245	270	270	350
	Approx. Weight	lb	6.6	8.4	9.9	13.2	14.8	17.6	20.9	28.7	33.1	44.1
		kg	3.0	3.8	4.5	6.0	6.7	8.0	9.5	13.0	15.0	20.0

STANDARD MATERIALS

- Body : Carbon Steel (A105, LF2), Stainless Steel (F304, F316)
- Ball : Stainless Steel (F304, F316)
- Stem : SS304, SS316
- Seat : PTFE, RTFE, Modified TFE, NYLON/ DEVLON, PEEK



SPECIFICATIONS

Construction

Class 800/1500 ; Split-body(3-piece), Side entry, Full/Reduced port, Free floating ball, **Socket-weld End**, "Fire-safe" designed to **API 607/ISO 10497 or API 6FA** Blow out proof stem, Anti-static device, Cavity relieving seats.

Valves are designed to **API 6D, ASME B16.34, API 608** and **ISO 17292/BS 5351** Specifications.

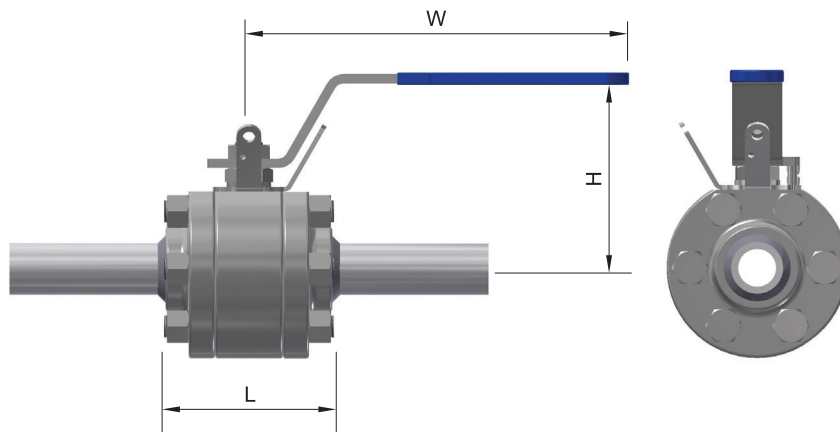
Manufactured and confirms to **NACE standard MR 0175**

Test pressure (psig / CS material)

ASME Class	Max. Working pressure	Shell (Hydro.)	Seat (Hydro. / Air)
Class 800	2000	3000	2200/ 80
Class 1500	3705	1175	4100/ 80

DIMENSIONS

CLASS 800 & 1500



Valve Size			1/2"x3/8"	1/2"	3/4"x1/2"	3/4"	1"x3/4"	1"	1 1/2"x1"	1 1/2"	2x1 1/2"	2"
Class 800	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L (without Nipple)	inch	5.71	5.71	5.91	5.91	6.10	6.10	7.09	7.09	7.87	7.87
		mm	145	145	150	150	155	155	180	180	200	200
	L (with Nipple)	inch	3.15	3.15	3.94	3.94	4.53	4.53	5.12	5.12	6.30	6.30
		mm	80	80	100	100	115	115	130	130	160	160
	H	inch	3.94	4.13	4.13	4.33	4.33	4.53	4.53	4.92	4.92	5.51
		mm	100	105	105	110	110	115	115	125	125	140
	W	inch	7.09	7.09	7.09	8.46	8.46	9.06	9.06	9.65	9.65	10.63
		mm	180	180	180	215	215	230	230	245	245	270
	Approx. Weight	lb	4.5	6.0	7.4	9.5	11.3	14.9	16.4	22.3	25.3	35.7
		kg	2.0	2.7	3.4	4.3	5.1	6.8	7.4	10.1	11.5	16.2
Class 1500	Ød (Ball port)	inch	0.43	0.5	0.5	0.75	0.75	1.0	1.0	1.5	1.5	1.9
		mm	11	13	13	19	19	25	25	38	38	49
	L (without Nipple)	inch	5.71	5.71	5.91	5.91	6.10	6.10	7.09	7.09	7.87	7.87
		mm	145	145	150	150	155	155	180	180	200	200
	L (with Nipple)	inch	3.94	3.94	4.33	4.33	4.92	4.92	5.51	5.51	6.69	6.69
		mm	100	100	110	110	125	125	140	140	170	170
	H	inch	3.66	3.66	3.66	3.94	3.94	4.13	4.13	4.92	4.92	5.31
		mm	93	93	93	100	100	105	105	125	125	135
	W	inch	8.46	8.46	8.46	9.65	9.65	9.65	9.65	10.63	10.63	13.78
		mm	215	215	215	245	245	245	245	270	270	350
	Approx. Weight	lb	8.9	11.3	13.4	17.9	19.9	23.8	28.3	38.7	44.6	59.5
		kg	4.1	5.1	6.1	8.1	9.0	10.8	12.8	17.6	20.3	27.0