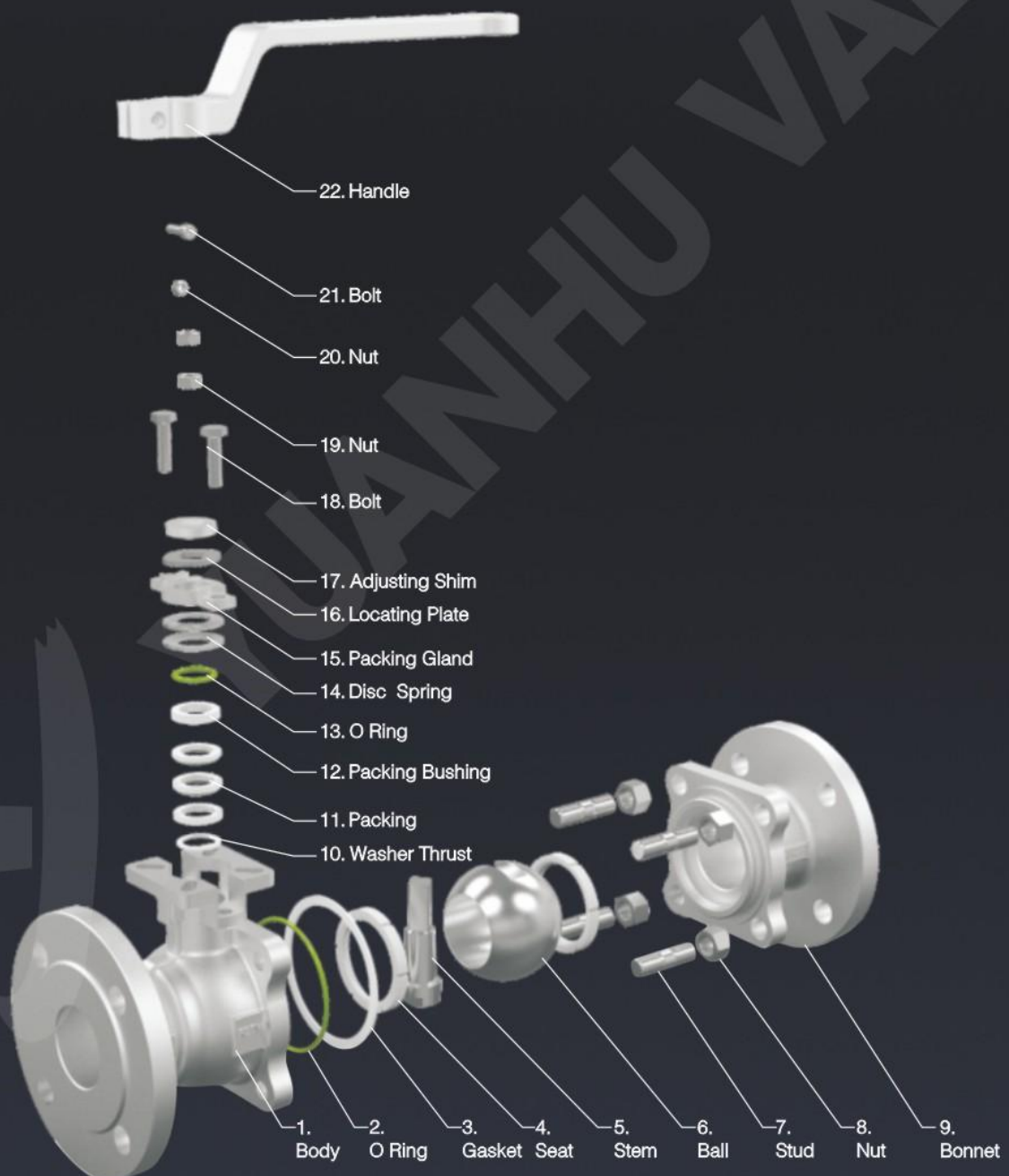


FLANGED BALL VALVE SERIES

Ball valve and gate valve are the same type of valve, the difference is that its closing part is a sphere, and the sphere rotates around the center line of the valve body to achieve opening and closing. Ball valves are mainly used to cut off, distribute and change the flow direction of the medium in the pipeline.





» GB Standard

National Standard HG/T High Platform Ball Valve **Q41F-16P**

Technical requirements

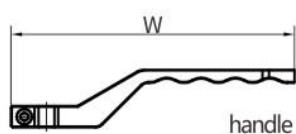
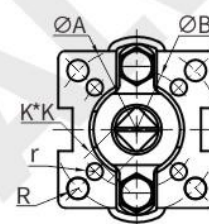
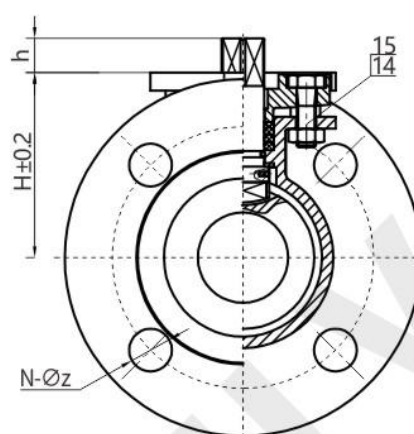
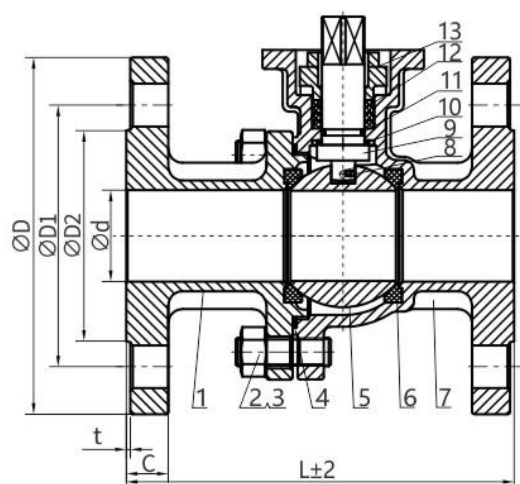
1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve is in accordance with the regulations of HG/T 20592.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.

PERFORMANCE SPECIFICATIONS

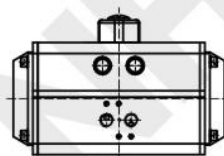
Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	High pressure sealing test	1.8			Air		
	Low pressure sealing test	0.6					
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

NUMBER	CODE	NAME	QUANTITY	MATERIAL	WEIGHT		REMARK
1	Q41F-16P-01	cap		A351 CF8/CF8M	single piece	total	
2	GB/T901-1988	Stud		SS304			Standard parts
3	GB/T6170-2000	nut		SS304			Standard parts
4	Q41F-16P-02	sealing line		PTFE			
5	Q41F-16P-13	sphere		SS304/SS316			
6	Q41F-16P-04	sealing ring		PTFE			
7	Q41F-16P-05	valve body		A351 CF8/CF8M			
8	Q41F-16P-23	Anti-static spring steel ball		SS304/SS316			
9	Q41F-16P-03	stem		SS304/SS316			
10	Q41F-16P-07	Anti-wear pads		PTEF			
11	GB/T3452	O-ring		NBR/VITON			
12	Q41F-16P-15	filler		PTFE			
13	Q41F-16P-11	gland		A351 CF8			
14	GB/T5780-2000	Hexagon head bolts		SS304			Standard parts
15	GB/T6170-2000	nut		SS304			Standard parts

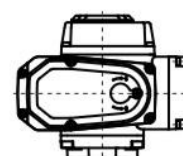
GB Standard



handle



Pneumatic actuators



Electric Actuator

Dimensions

Unit:mm

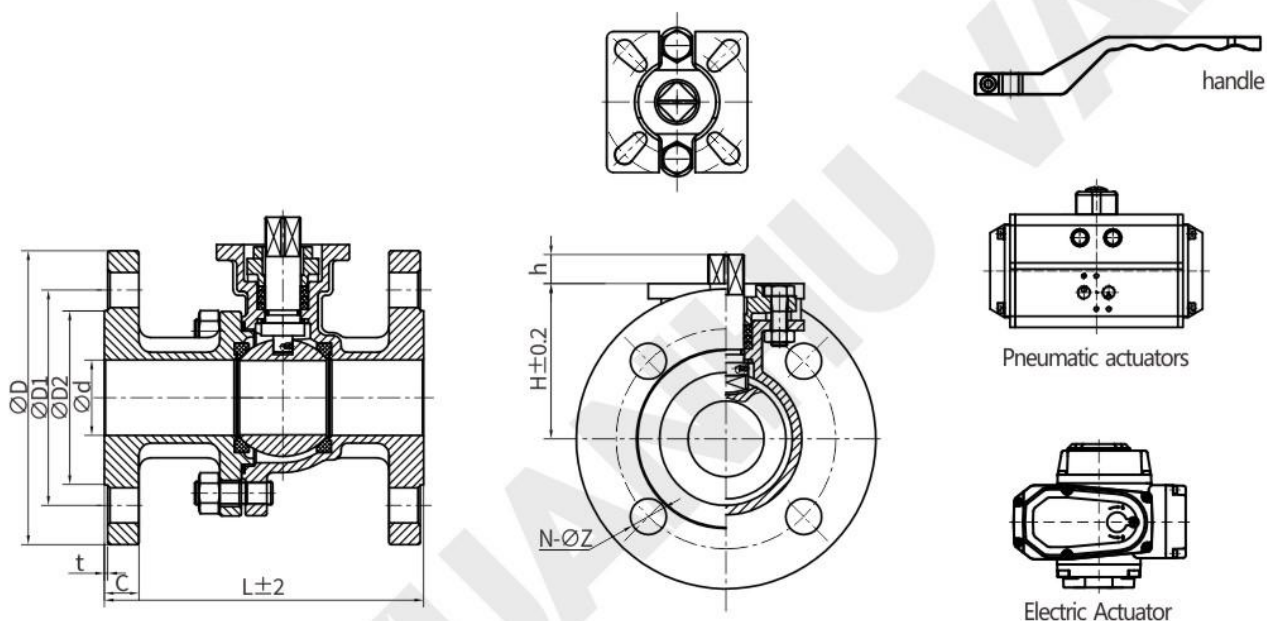
SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	h	N-φz
1/2"	15	95	65	45	16	2	130	50	140	50	36	3.5	3	9*9	9	4-φ14
3/4"	20	105	75	58	18	2	130	54	140	50	36	3.5	3	9*9	9	4-φ14
1"	25	115	85	68	18	2	140	61	170	70	50	4.5	3.5	11*11	11	4-φ14
1¼"	32	140	100	78	18	2	165	74	170	70	50	4.5	3.5	11*11	11	4-φ18
1½"	40	150	110	88	18	3	165	78	200	70	50	4.5	3.5	14*14	14	4-φ18
2"	50	165	125	102	20	3	203	82	200	70	50	4.5	3.5	14*14	14	4-φ18
2½"	65	185	145	122	18	3	222	112	300	102	70	5.5	4.5	17*17	17	8-φ18
3"	80	200	160	138	20	3	241	120	300	102	70	5.5	4.5	17*17	17	8-φ18
4"	100	220	180	158	20	3	305	144	300	102	70	5.5	4.5	17*17	17	8-φ18
5"	125	250	210	188	22	3	356	178	650	125	102	7	6	22	23	8-φ18
6"	150	285	240	212	22	3	394	195	800	125	102	7	6	27	28	8-φ22
8"	200	340	295	268	24	3	457	253	800	140	125	9	7	27	28	12-φ22

GB Standard

National Standard JB High Platform Ball Valve Q41F-16P

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve shall be in accordance with the provisions of GB/T 79.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.



Dimensions

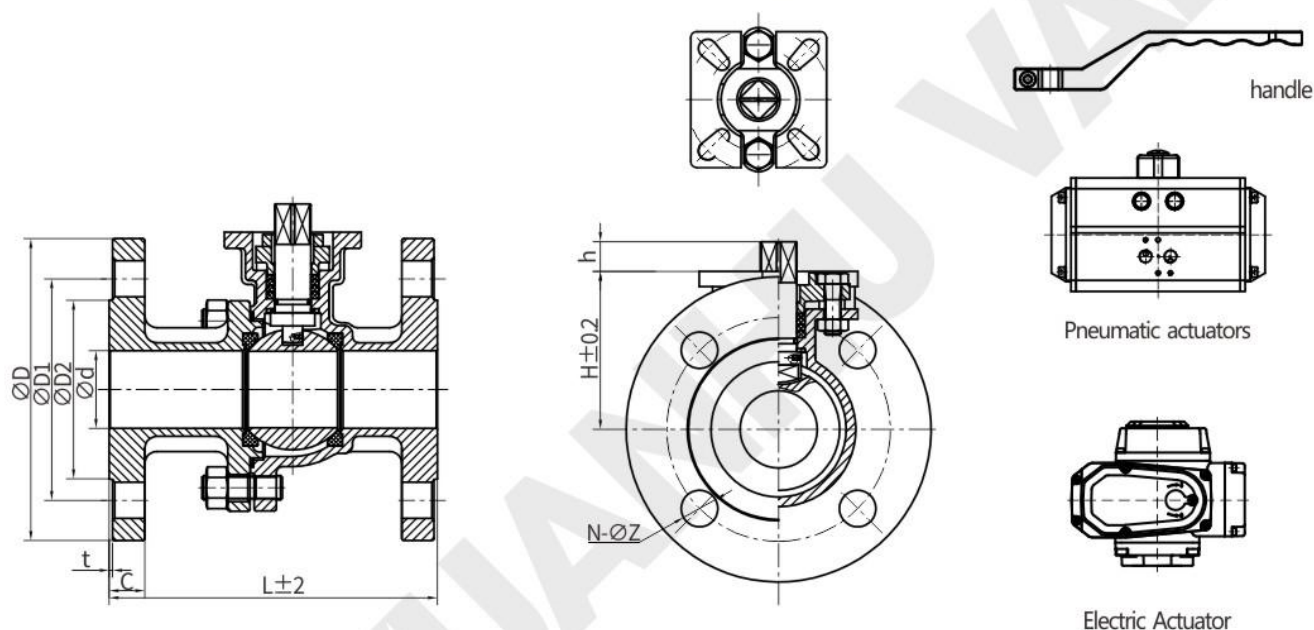
Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	h	N- ϕ z
1/2"	15	95	65	45	14	2	130	51	140	50	36	3.5	3	9*9	9	4- ϕ 14
3/4"	20	105	75	55	14	2	140	56	140	50	36	3.5	3	9*9	9	4- ϕ 14
1"	25	115	85	65	14	2	150	62	170	70	50	4.5	3.5	11*11	11	4- ϕ 14
1 1/4"	32	135	100	78	16	2	165	72	170	70	50	4.5	3.5	11*11	11	4- ϕ 18
1 1/2"	40	145	110	85	16	3	180	78	200	70	50	4.5	3.5	14*14	14	4- ϕ 18
2"	50	160	125	100	16	3	200	86	200	70	50	4.5	3.5	14*14	14	4- ϕ 18
2 1/2"	65	180	145	120	18	3	220	102	300	102	70	5.5	4.5	17*17	17	4- ϕ 18
3"	80	195	160	135	20	3	250	115	300	102	70	5.5	4.5	17*17	17	8- ϕ 18
4"	100	215	180	155	20	3	280	137	300	102	70	5.5	4.5	17*17	17	8- ϕ 18
5"	125	245	210	188	22	3	320	175	650	125	102	7	6	22	23	8- ϕ 18
6"	150	280	240	212	24	3	360	208	800	125	102	7	6	27	28	8- ϕ 23
8"	200	335	295	268	26	3	400	252	800	140	125	9	7	27	28	12- ϕ 23

ANSI Standard <<

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of ANSI B16.34.
2. The structural length of the valve is in accordance with the regulations of ASME B16.10.
3. The connecting flange of the valve shall comply with the regulations of ASME B16.5.
4. The inspection and test of the valve shall be in accordance with the provisions of API598.



Dimensions

Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	h	N- ϕZ
1/2"	15	90	60.5	35	10	2	108	51	140	50	36	3.5	3	9*9	9	4- $\phi 16$
3/4"	20	100	70	43	11	2	117	56	140	50	36	3.5	3	9*9	9	4- $\phi 16$
1"	25	110	79.5	51	12	2	127	62	170	70	50	4.5	3.5	11*11	11	4- $\phi 16$
1 1/4"	32	115	89	63.5	13	2	140	72	170	70	50	4.5	3.5	11*11	11	4- $\phi 16$
1 1/2"	40	125	98.5	73	15	2	165	78	200	70	50	4.5	3.5	14*14	14	4- $\phi 16$
2"	50	150	120.5	92	17	2	178	86	200	70	50	4.5	3.5	14*14	14	4- $\phi 19$
2 1/2"	65	180	140	105	18	2	190	102	300	102	70	5.5	4.5	17*17	17	4- $\phi 19$
3"	80	190	152.5	127	20	2	203	115	300	102	70	5.5	4.5	17*17	17	4- $\phi 19$
4"	100	230	190.5	157	24	2	229	137	300	102	70	5.5	4.5	17*17	17	8- $\phi 19$
5"	125	255	216	186	24	2	356	175	650	125	102	7	6	22	23	8- $\phi 22$
6"	150	280	241.5	216	26	2	394	208	800	125	102	7	6	27	28	8- $\phi 22$
8"	200	345	298.5	267	29	2	457	252	800	140	125	9	7	27	28	8- $\phi 22$

» ANSI Standard

ANSI Standard (standard flange)
High platform ball valve

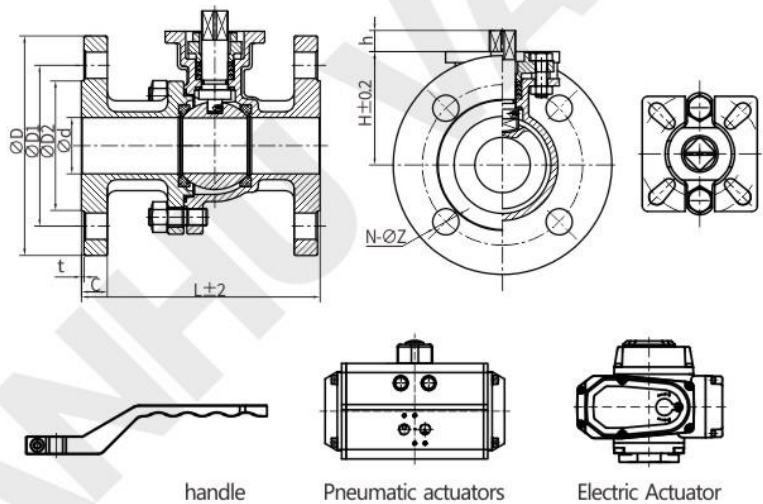
Q41F-150LB

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of ANSI B16.34.
2. The structural length of the valve is in accordance with the regulations of ASME B16.10.
3. The connecting flange of the valve shall comply with the regulations of ASME B16.5.
4. The inspection and test of the valve shall be in accordance with the provisions of API598.

PERFORMANCE SPECIFICATIONS

Nominal pressure				150LB			
Nominal diameter				1/2"-8"			
Test pressure	Strength test	3.0	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	2.2					
	Air tightness test	0.6			Air		
Applicable media			water oil etc				
Maximum operating temperature			-29~120℃				



Dimensions

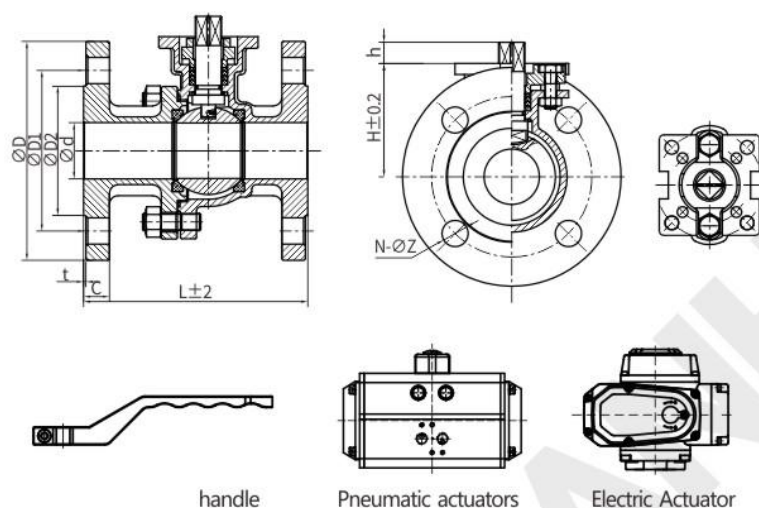
Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	h	N-φz
1/2"	15	90	60.5	35	11.6	2	108	51	140	50	36	3.5	3	9*9	9	4-φ16
3/4"	20	100	70	43	13.2	2	117	56	140	50	36	3.5	3	9*9	9	4-φ16
1"	25	110	79.5	51	14.7	2	127	62	170	70	50	4.5	3.5	11*11	11	4-φ16
1 1/4"	32	115	89	63.5	16.3	2	140	72	170	70	50	4.5	3.5	11*11	11	4-φ16
1 1/2"	40	125	98.5	73	17.9	2	165	78	200	70	50	4.5	3.5	14*14	14	4-φ16
2"	50	150	120.5	92	19.5	2	178	86	200	70	50	4.5	3.5	14*14	14	4-φ19
2 1/2"	65	180	140	105	23	2	190	102	300	102	70	5.5	4.5	17*17	17	4-φ19
3"	80	190	152.5	127	24.3	2	203	115	300	102	70	5.5	4.5	17*17	17	4-φ19
4"	100	230	190.5	157	24.3	2	229	137	300	102	70	5.5	4.5	17*17	17	8-φ19
5"	125	255	216	186	24.3	2	356	175	650	125	102	7	6	22	23	8-φ22
6"	150	280	241.5	216	26	2	394	208	800	125	102	7	6	27	28	8-φ22
8"	200	345	298.5	267	29	2	457	252	800	140	125	9	7	27	28	8-φ22

DIN Standard <<

Technical requirements

1. The valve is designed and manufactured according to DIN 3357.
2. The structural length of the valve is in accordance with DIN 3202.
3. The connecting flange of the valve is in accordance with DIN 1092.
4. The inspection and test of the valve shall be in accordance with the provisions of EN 1226.



PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6					
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

Dimensions

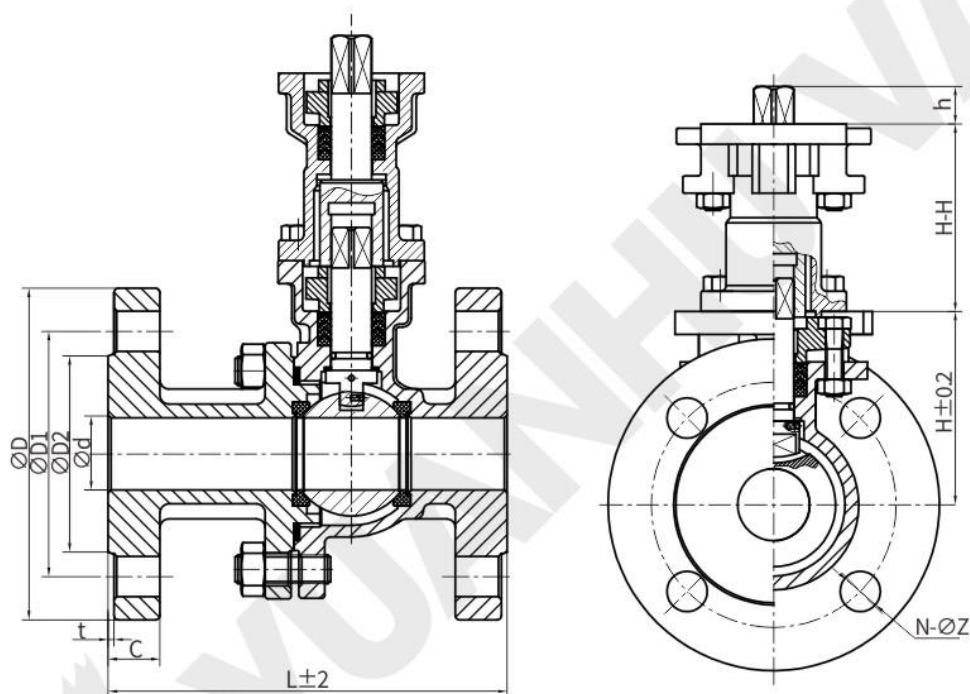
Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	h	N-φz
1/2"	15	95	65	45	16	2	115	55	140	50	36	3.5	3	9*9	9	4-φ14
3/4"	20	105	75	58	18	2	120	60	140	50	36	3.5	3	9*9	9	4-φ14
1"	25	115	85	68	18	2	125	67	170	70	50	4.5	3.5	11*11	11	4-φ14
1 1/4"	32	140	100	78	18	2	130	76	170	70	50	4.5	3.5	11*11	11	4-φ18
1 1/2"	40	150	110	88	18	3	140	85	200	70	50	4.5	3.5	14*14	14	4-φ18
2"	50	165	125	102	18	3	150	93	200	70	50	4.5	3.5	14*14	14	4-φ18
2 1/2"	65	185	145	122	18	3	170	113	300	102	70	5.5	4.5	17*17	17	8-φ18
3"	80	200	160	138	20	3	180	126	300	102	70	5.5	4.5	17*17	17	8-φ18
4"	100	220	180	158	20	3	190	141	300	102	70	5.5	4.5	17*17	17	8-φ18
5"	125	250	210	188	22	3	325	180	400	125	102	7	6	22	23	8-φ18
6"	150	285	240	212	22	3	350	207	500	125	102	7	6	27	27	8-φ22
8"	200	340	295	268	24	3	400	256	600	140	125	9	7	36	36	12-φ22

» ANSI Standard

ANSI Standard Flange
Q41F-16P High Platform Ball Valve

Q41F-16P



Dimensions

Unit:mm

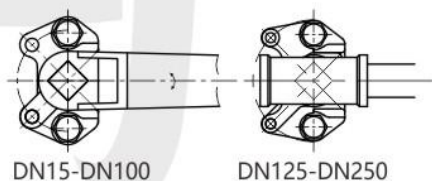
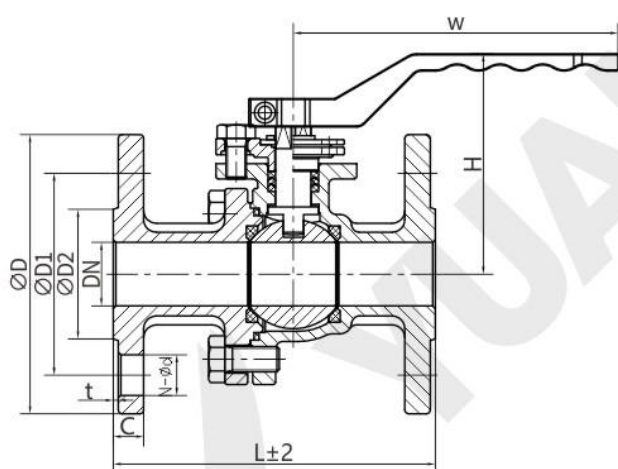
SIZE	d	D	D1	D2	C	t	L	H	W	A	B	R	r	K*K	H-H	h	N- $\varnothing$ Z
1/2"	15	95	65	45	16	2	130	50	140	50	36	3.5	3	9*9	60	9	4- $\varnothing$ 14
3/4"	20	105	75	58	18	2	130	54	140	50	36	3.5	3	9*9	60	9	4- $\varnothing$ 14
1"	25	115	85	68	18	2	140	61	170	70	50	4.5	3.5	11*11	65	11	4- $\varnothing$ 14
1 1/4"	32	140	100	78	18	2	165	74	170	70	50	4.5	3.5	11*11	65	11	4- $\varnothing$ 18
1 1/2"	40	150	110	88	18	3	165	78	200	70	50	4.5	3.5	14*14	80	14	4- $\varnothing$ 18
2"	50	165	125	102	18	3	203	82	200	70	50	4.5	3.5	14*14	80	14	4- $\varnothing$ 18
2 1/2"	65	185	145	122	18	3	222	112	300	102	70	5.5	4.5	17*17	100	17	8- $\varnothing$ 18
3"	80	200	160	138	20	3	241	120	300	102	70	5.5	4.5	17*17	100	17	8- $\varnothing$ 18
4"	100	220	180	158	20	3	305	144	300	102	70	5.5	4.5	17*17	100	17	8- $\varnothing$ 18



Low Platform Flanged Ball Valve

STANDARDS:

Design: GB/T12237;DIN3357;EN12516-1;ASME B16.34;API608。
 Wakk Thickness: ANSI B16.34,EN12516-1。
 End Flange: GB/T9113;HG20592;DIN1092;ASME B16.5;JIS B2238。
 Inspection&Testing:GB/T 26480 26480;DIN3230;API 598;EN 12266。



MATERIALS LIST

	PART NAME	MATERIAL		
1	Bonnet	A351 CF8	A351 CF8M	A216 WCB
2	Bolt	ASTM A193 B7 ASTM A193 B8		
3	screw nut	A194 8 A194 2H		
4	Gasmket	PTFE/RPEFE		
5	Ball	SUS304/SUS316		
6	Seat	PTFE/RPEFE/PPL/PEEK		
7	Body	A351 CF8	A351 CF8M	A216 WCB
8	Anti Static Decice	SUS304		
9	Stem	SUS304/SUS316		
10	Stem Washer	PTFE/RPEFE		
11	O-Ring	FKM/VITON		
12	V-Ring Packing	PTFE/RPEFE		
13	Gland	SUS304		
14	Stop lock cap	SUS304		
15	Shaft ring	SUS304		
16	Bolt	SUS304		
17	Handle	A351 CF8		

Dimensions GB PN16/40 (National standard flange ball valve) Unit:mm

SIZE	L	D	D1	D2	t	C	N- ϕ d	H	W
15	130	95	65	45	2	16	4- ϕ 14	70.5	140
20	130	105	75	55	2	18	4- ϕ 14	74	140
25	140	115	85	65	2	18	4- ϕ 14	88	160
32	165	140	100	78	2	18	4- ϕ 18	92.5	160
40	165	150	110	85	3	18	4- ϕ 18	116	230
50	203	165	125	100	3	20	4- ϕ 18	122.5	230
65	222	185	145	120	3	18	4- ϕ 18	131.5	230
80	241	200	160	135	3	20	8- ϕ 18	158.5	300
100	305	220	180	155	3	20	8- ϕ 18	182.5	300
125	320	245	210	185	3	22	8- ϕ 18	238	500
150	360	285	240	210	3	24	8- ϕ 23	278.5	645
200	457	335	295	265	3	26	12- ϕ 23	329	845
250	533	405	355	320	3	30	12- ϕ 25	395	1335

Dimensions ASME CLASS 150LB (American Standard Flanged Ball Valve) Unit:mm

SIZE	DN	L	D	D1	D2	t	C	N- ϕ d	H	W
1/2"	15	108	90	60.5	35	2	10	4- ϕ 16	70.5	140
3/4"	20	117	100	70	43	2	11	4- ϕ 16	74	140
1"	25	127	110	79.5	51	2	12	4- ϕ 16	88	160
1¼"	32	140	115	89	63.5	2	13	4- ϕ 16	92.5	160
1½"	38	165	125	98.5	73	2	15	4- ϕ 16	116	230
2"	50	178	150	120.5	92	2	16	4- ϕ 19	122.5	230
2½"	65	190	180	140	105	2	18	4- ϕ 19	131.5	230
3"	76	203	190	152.5	127	2	19	4- ϕ 19	158.5	300
4"	100	229	230	190.5	157	2	24	8- ϕ 19	182.5	300
5"	125	356	255	216	186	2	24	8- ϕ 22	238	500
6"	150	394	280	241.5	216	2	26	8- ϕ 22	278.5	645
8"	200	457	345	298.5	267	2	29	8- ϕ 22	329	845
10"	250	533	405	362	324	2	31	12- ϕ 25	395	1335

Dimensions JIS 10K (Japanese standard flanged ball valve) Unit:mm

SIZE	DN	L	D	D1	D2	t	C	N-φd	H	W
1/2"	15	108	95	70	52	1	12	4-φ15	70.5	130
3/4"	20	117	100	75	58	1	14	4-φ15	74	130
1"	25	127	125	90	70	1	14	4-φ19	88	170
1¼"	32	140	135	100	80	2	16	4-φ19	92.5	170
1½"	38	165	140	105	85	2	16	4-φ19	116	230
2"	50	178	155	120	100	2	16	4-φ19	122.5	230
2½"	65	190	175	140	116	2	18	4-φ19	131.5	230
3"	76	203	185	150	130	2	18	8-φ19	158.5	300
4"	100	229	210	175	155	2	18	8-φ19	182.5	300
5"	125	356	250	210	185	2	20	8-φ23	238	500
6"	150	394	280	240	215	2	22	8-φ23	278.5	645
8"	200	457	330	290	265	2	22	12-φ23	329	845
10"	250	533	400	355	325	2	24	12-φ25	395	1335

Dimensions DIN PN16/40 (German standard flanged ball valve) Unit:mm

SIZE	L	D	D1	D2	t	C	N-φd	H	W
15	115	95	65	45	2	16	4-φ14	70.5	140
20	120	105	75	58	2	18	4-φ14	74	140
25	125	115	85	68	2	18	4-φ14	88	160
32	130	140	100	78	2	18	4-φ14	92.5	160
40	140	150	110	88	3	18	4-φ18	116	230
50	150	165	125	102	3	20	4-φ18	122.5	230
65	170	185	145	122	3	20	4-φ18	131.5	230
80	180	200	160	138	3	20	8-φ18	158.5	300
100	190	220	180	158	3	20	8-φ18	182.5	300
125	325	250	210	188	3	22	8-φ18	238	500
150	350	285	240	212	3	24	8-φ22	278.5	645
200	400	340	295	268	3	26	12-φ22	329	845
250	450	405	355	320	3	30	12-φ26	395	1335

» GB Standard

National Standard
Manual Ball Valve

Q41F-16P

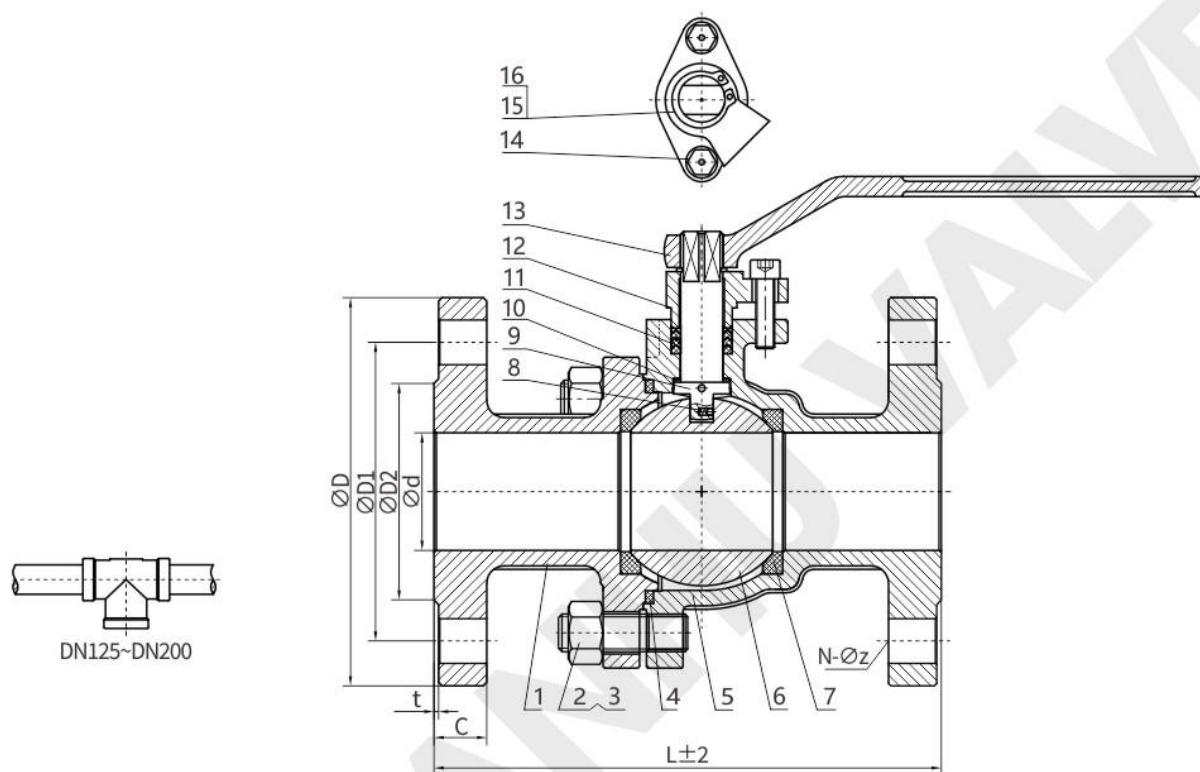
Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of JB/1686.
3. The connecting flange of the valve is in accordance with the regulations of HG/T 20592.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.

PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8			Air		
	Air tightness test	0.6					
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

NUMBER	PART NAME	MATERIAL		
1	End cap	A351 CF8M	A351 CF8M	A216 WCB
2	Bolt	SS304	SS304	SS304
3	Nut	SS304	SS304	SS304
4	Sealing line	PTFE	PTFE	PTFE
5	Valve body	A351 CF8M	A351 CF8	A216 WCB
6	Sphere	SS316	SS304	SS304
7	Valve seat	PTFE	PTFE	PTFE
8	Anti-static device	SS304	SS316	SS304
9	Stem	SS316	SS304	SS304
10	Anti-wear pads	PTFE	PTFE	PTFE
11	V-shaped packing	PTFE	PTFE	PTFE
12	Platen	CF8	CF8	CF8
13	Handle	CF8	CF8	45#
14	Set bolt	SS304	SS304	SS304
15	Positioning lock block	SS304	SS304	SS304
16	Circlip	SS304	SS304	SS304



Dimensions		HG Flange/JB Length						Unit:mm
DN	L	D	D1	D2	C	t	N- ϕz	
15	130	95	65	45	16	2	4- $\phi 14$	
20	140	105	75	55	18	2	4- $\phi 14$	
25	150	115	85	65	18	2	4- $\phi 14$	
32	165	140	100	78	18	2	4- $\phi 18$	
40	180	150	110	85	18	3	4- $\phi 18$	
50	200	165	125	100	18	3	4- $\phi 18$	
65	220	185	145	120	18	3	8- $\phi 18$	
80	250	200	160	135	20	3	8- $\phi 18$	
100	280	220	180	155	20	3	8- $\phi 18$	
125	320	250	210	188	22	3	8- $\phi 18$	
150	360	285	240	212	22	3	8- $\phi 22$	
200	400	340	295	268	24	3	12- $\phi 22$	

» GB Standard

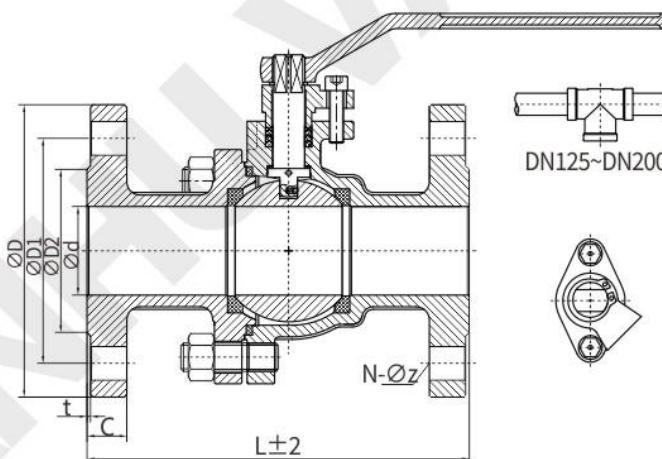
National Standard Manual Ball Valve Q41F-16P

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve is in accordance with the regulations of HG/T 20592.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.

PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6					
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					



Dimensions HG Flange/HG Length

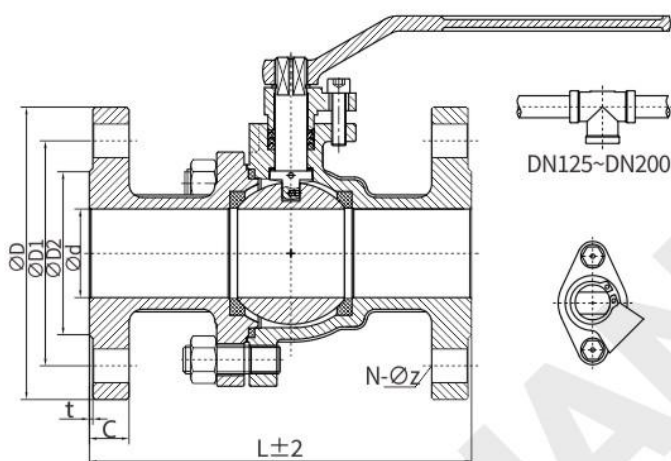
Unit:mm

DN	L	D	D1	D2	C	t	N-φz
15	130	95	65	45	16	2	4-φ14
20	140	105	75	55	18	2	4-φ14
25	150	115	85	65	18	2	4-φ14
32	165	140	100	78	18	2	4-φ18
40	165	150	110	85	18	3	4-φ18
50	203	165	125	100	18	3	4-φ18
65	222	185	145	120	18	3	8-φ18
80	241	200	160	135	20	3	8-φ18
100	305	220	180	155	20	3	8-φ18
125	356	250	210	188	22	3	8-φ18
150	394	285	240	212	22	3	8-φ22
200	457	340	295	268	24	3	12-φ22

GB Standard <<

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve shall be in accordance with the provisions of JB/T 79.1.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.



PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6			Air		
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

Dimensions JB Flange/JB Length

Unit:mm

DN	L	D	D1	D2	C	t	N-φz
15	130	95	65	45	14	2	4-φ14
20	140	105	75	55	14	2	4-φ14
25	150	115	85	65	14	2	4-φ14
32	165	135	100	78	16	2	4-φ18
40	180	145	110	85	16	3	4-φ18
50	200	160	125	100	16	3	4-φ18
65	220	180	145	120	18	3	4-φ18
80	250	195	160	135	20	3	8-φ18
100	280	215	180	155	20	3	8-φ18
125	320	245	210	188	22	3	8-φ18
150	360	280	240	212	22	3	8-φ23
200	400	335	295	268	24	3	12-φ23

» ANSI Standard

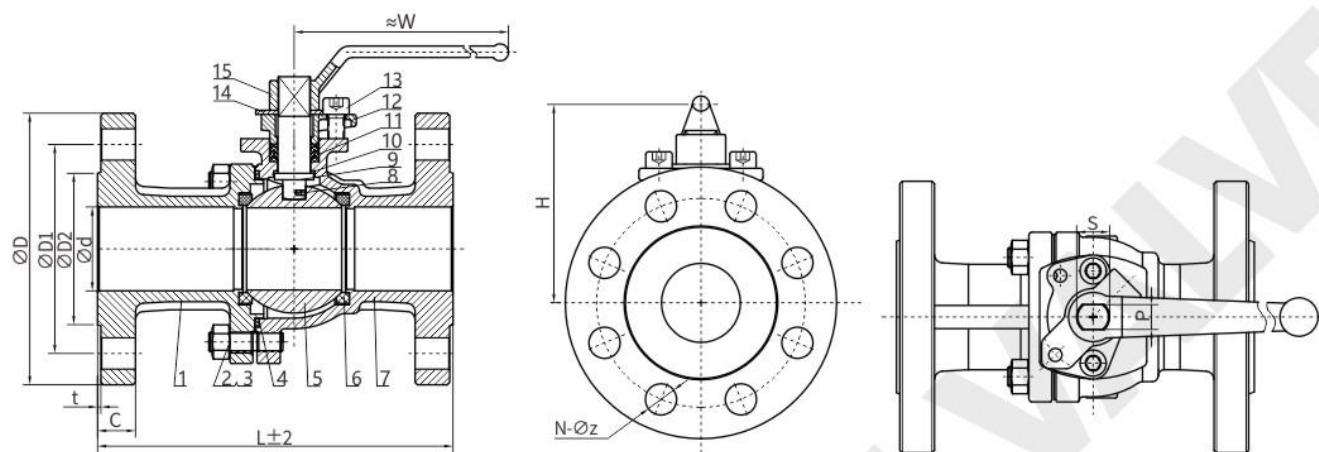
ANSI Standard Manual Ball Valve Q41F-300LB

PERFORMANCE SPECIFICATIONS

Nominal pressure				300LB			
Nominal diameter				1/2"-4"			
Test pressure	Strength test	7.5	Mpa	试验介质 Test medium	Water	Test temperature	Normal Temperature
	Seal test	5.5					
	Air tightness test	0.6			Air		
Applicable media		water oil etc					
Maximum operating temperature		-29~150℃					

NUMBER	PART NAME	MATERIAL	
1	End cap	A351 CF8	A351 CF8M
2	Bolt	A193-B8	A193-B8
3	Nut	A194-8	A194-8
4	Line	PTFE/Graphite+SS304	PTFE/Graphite+SS304
5	Sphere	SS304	SS316
6	Valve body	A351 CF8	A351 CF8M
7	Valve seat	R-PTFE/PEEK	R-PTFE/PEEK
8	Anti-static device	SS304	SS304
9	Stem	SS304	SS316
10	Anti-wear pads	PTFE	PTFE
11	Filler	PTFE/Graphite	PTFE/Graphite
12	Platen	CF8	CF8
13	Set bolt	SS304	SS304
14	Positioning lock block	SS304	SS304
15	Handle	CF8	CF8

ANSI Standard <<



Dimensions

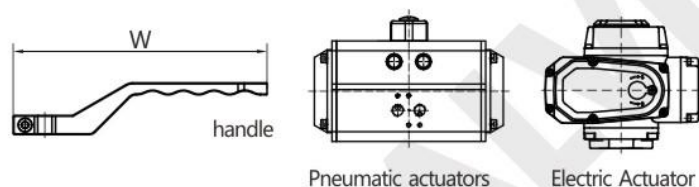
Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	W	N-Øz	P	S
1/2"	15	95	66.7	35	15	2	140	75	155	4-Ø16	8	12
3/4"	20	115	82.6	43	16.3	2	152	75	155	4-Ø19	8	12
1"	25	125	88.9	51	18	2	165	85	165	4-Ø19	9	14
1¼"	32	135	98.4	64	20	2	178	90	180	4-Ø19	10	16
1½"	40	155	114.3	73	21	2	190	100	185	4-Ø22	12	18
2"	50	165	127.0	92	23	2	216	115	235	8-Ø19	14	20
2½"	65	190	149.2	105	26	2	241	135	255	8-Ø22	15	22
3"	80	210	168.3	127	29	2	282	145	270	8-Ø22	16	24
4"	100	255	200.0	157	32.5	2	305	175	340	8-Ø22	17	26

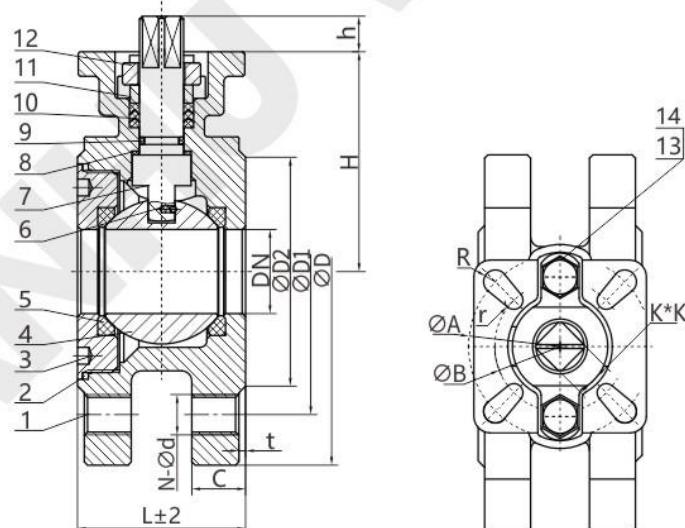


» Wafer Type Ball Valve

Q71F-16P



NO.	NAME	MATERIAL		
1	Body	A351 CF8	A351 CF8M	A216 WC8
2	Gasmket	PTFE	PTFE	PTFE
3	Bonnet	A351 CF8	A351 CF8M	A216 WCB
4	Ball	SS304/SS316	SS316	SS304/SS316
5	seat	PTFE	PTFE	PTFE
6	Anti static device	SS304	SS316	SS304
7	Stem	SS304/SS316	SS316	SS304/SS316
8	Stem Washer	PTFE	PTFE	PTFE
9	O-Ring	NBR/VITON	NBR/VITON	NBR/VITON
10	Packing	PTFE	PTFE	PTFE
11	Pressure ring	SS304	SS304	SS304
12	platen	CF8	CF8	CF8
13	spring pad	SS304	SS304	SS304
14	nut	SS304	SS304	SS304



Dimensions

Unit:mm

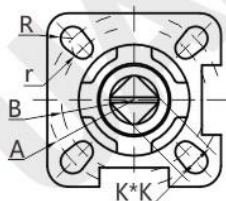
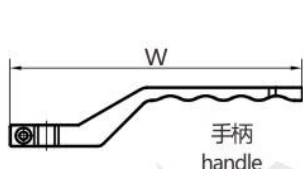
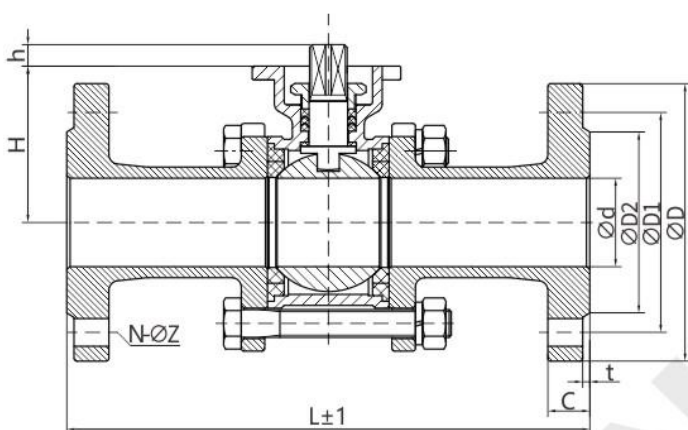
SIZE	DN	L	D	D1	D2	t	C	N-φd	H	h	W	A	B	R	r	K
DN15	15	35	95	65	45	2	16	4-M12	75	8	140	42	36	3	3	9
DN20	20	38	105	75	58	2	16	4-M12	80	8	140	42	36	3	3	9
DN25	25	42	115	85	68	2	16	4-M12	90	11	170	50	42	3.5	3	11
DN32	32	53	135	100	78	2	18	4-M16	103	11	170	50	42	3.5	3	11
DN40	38	63	145	110	88	3	18	4-M16	115	15	200	70	50	4.5	3.5	14
DN50	50	72	160	125	102	3	18	4-M16	120	15	200	70	50	4.5	3.5	14
DN65	65	95	180	145	122	3	18	4-M16	140	18	300	102	70	5.5	4.5	17
DN80	76	118	195	160	138	3	20	8-M16	150	18	300	102	70	5.5	4.5	17
DN100	100	142	215	180	158	3	20	8-M16	170	18	300	102	70	5.5	4.5	17



3PC-High Platform Flanged Ball Valve

Technical requirements

1. The design and manufacture of the valve are in accordance with the regulations of ANSI/ASME B16.34.
2. The connecting flange of the valve shall comply with the regulations of JB/T79. ASME B16.5.
3. The inspection and test of the valve shall be in accordance with the provisions of API 598.



PERFORMANCE SPECIFICATIONS

Nominal pressure		1000 PSI	
Test pressure	Strength test	10.4	Mpa
	High pressure sealing test	7.6	
	Low pressure sealing test	0.6	
	Applicable medium: water, oil, gas, etc.		
Applicable temperature	-29~+120		℃

Dimensions

Unit:mm

DN	d	L	D	D1	D2	C	t	N-φz	H	W	A	B	R	r	K*K	h
15	15	125	95	65	45	12	2	4-φ14	37	140	50	42	3.5	3	9*9	10
20	20	150	105	75	55	12	2	4-φ14	45	140	50	42	3.5	3	9*9	10
25	25	155	115	85	65	12	2	4-φ14	55	170	50	42	3.5	3	11*11	12
32	32	175	135	100	78	15	2	4-φ18	60	170	50	42	3.5	3	11*11	12
40	38	195	145	110	85	15	2	4-φ18	70	200	70	50	4.5	3.5	14*14	15
50	50	225	160	125	100	16	2	4-φ18	77	200	70	50	4.5	3.5	14*14	15
65	65	290	180	145	120	18	3	4-φ18	98	300	102	70	5.5	4.5	17*17	18
80	76	300	195	160	135	18	3	8-φ18	112	300	102	70	5.5	4.5	17*17	18
100	100	345	215	180	155	20	3	8-φ18	140	300	102	70	5.5	4.5	19*19	18

Mechanical Department High Platform T-type Three-way Ball Valve

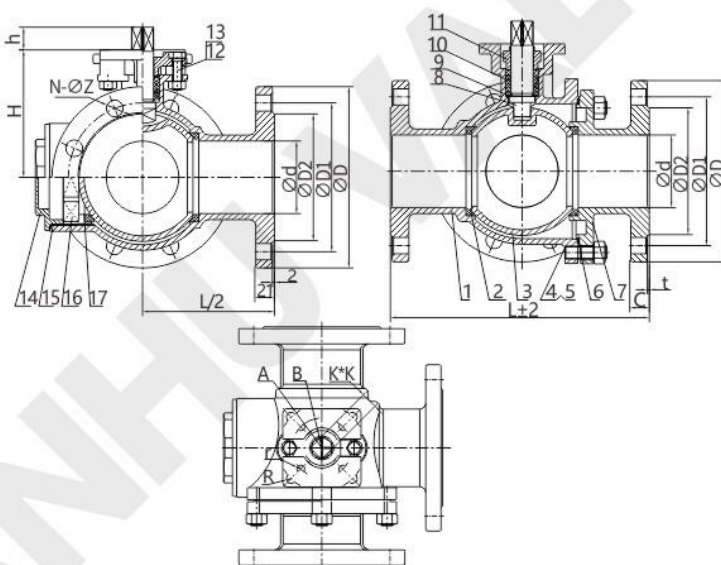
Q45F-16P

PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN15-200			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6					
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

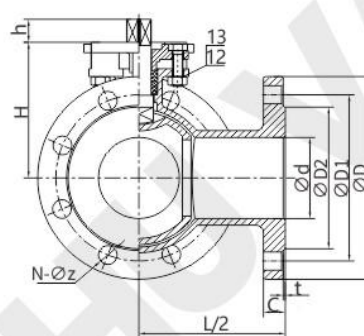
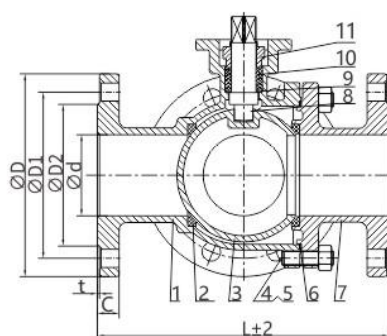
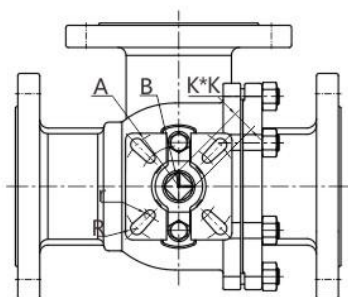
Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve shall comply with the regulations of JB/T79.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.



NUMBER	CODE	NAME	QUANTITY	MATERIAL	WEIGHT		REMARK
1	Q45F-16P-05	valve body	1	A351 CF8 /CF8M	single piece	total	
2	Q45F-16P-15	sealing ring	3	PTFE/RPTFE			Customized parts
3	Q45F-16P-10	sphere	1	SS304/SS316			
4	GB/T 901-1988	Stud bolt	6	SS304			Standard Parts
5	GB/T 6170-2000	Nut	6	SS304			Standard Parts
6	Q45F-16P-02	sealing line	1	PTFE/RPTFE			Customized parts
7	Q45F-16P-01	cap	1	A351 CF8 /CF8M			
8	Q45F-16P-03	stem	1	SS304 /SS316			Customized parts
9	Q44F-16P-08	Anti-flying gasket	1	F304			Borrow Piece
10	Q44F-16P-07	filler	1组	PTFE/RPTFE			
11	Q44F-16P-09	gland	1	A351 CF8			
12	GB/T 5780-2000	Hexagon head bolt	2	SS304			Standard Parts
13	GB/T 6170-2000	Nut M10	2	SS304			Standard Parts
14	Q45F-16P-12	back cover	1	A351 CF8			
15	Q45F-16P-02	sealing line	1	PTFE/RPTFE			Customized parts
16	Q44F-16P-09	seat ring	1	A351 CF8			
17	Q45F-16P-15	sealing ring	1	PTFE/RPTFE			Customized parts

Mechanical Department High Platform L Type Three-way Ball Valve



Dimensions (Ministry of Chemical Industry)

SIZE	d	D	D1	D2	C	t	L	H	A	B	R	r	K*K	h	N-Øz
1"	25	115	85	65	18	2	180	70	70	/	3.5	/	11*11	12	4-Ø14
1¼"	32	140	100	78	18	2	200	80	70	/	4.5	/	11*11	12	4-Ø18
1½"	40	150	110	85	18	3	220	85	70	50	4.5	3.5	14*14	15	4-Ø18
2"	50	165	125	100	18	3	240	100	70	/	4.5	/	17*17	18	4-Ø18
2½"	65	185	145	120	18	3	260	110	102	70	5.5	4.5	17*17	18	6-Ø18
3"	80	200	160	135	20	3	280	135	102	70	5.5	4.5	19*19	20	8-Ø18
4"	100	220	180	155	20	3	320	150	102	70	5.5	4.5	22*22	23	8-Ø18

Dimensions (Machinery Department)

Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	A	B	R	r	K*K	h	N-Øz
1"	25	115	85	65	14	2	180	62	70	/	3.5	/	11*11	12	4-Ø14
1¼"	32	135	100	78	16	2	200	72	70	/	4.5	/	11*11	12	4-Ø18
1½"	40	145	110	85	16	3	220	78	70	/	4.5	/	14*14	15	4-Ø18
2"	50	160	125	100	16	3	240	86	70	/	4.5	/	17*17	18	4-Ø18
2½"	65	180	145	120	18	3	260	102	102	70	5.5	4.5	17*17	18	4-Ø18
3"	80	195	160	135	20	3	280	115	102	70	5.5	4.5	19*19	20	8-Ø18
4"	100	215	180	155	20	3	320	137	102	70	5.5	4.5	22*22	23	8-Ø18

» Three/four-way Ball Valve

Q44F/Q45F-16P
Q44F/Q45F-150LB
Q44F/Q45F-10K

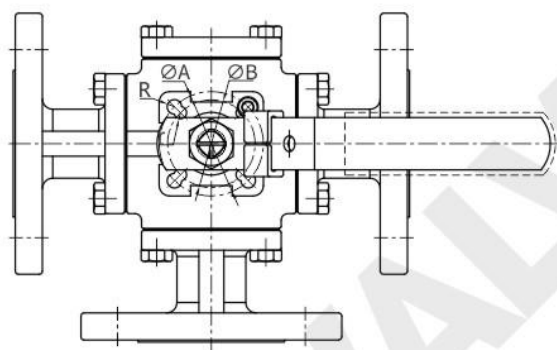
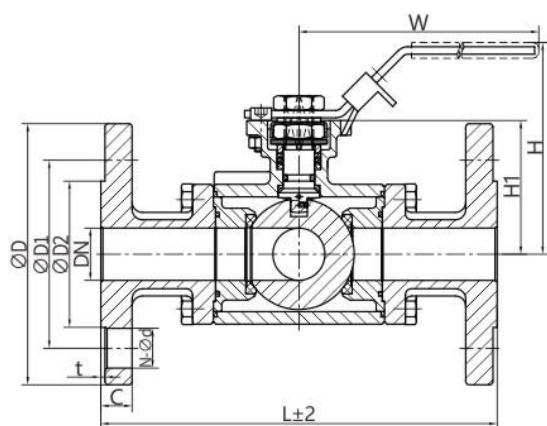
STANDARDS:

Design:ANSI B16.34,API608。
 Wakk Thickness:ANSI B16.34,EN1256-3。
 Pipe Thread:ANSI B1.20.1;BS21;DIN 2999/259;ISO 288/1;
 ISO7/1;JIS B0203。
 ASME B16.10。
 ASME B16.25/ISO1127/EN12627。
 ASME B16.5 CLASS 150/300;
 EN1092-1(HG20592 GB/T9113) PN10-PN40;
 JIS B2238 10K/20K。
 Inspection&Testing:API 598;EN12266。

MATERIALS LIST

NO	Part name	Material		
1	Bonnet	A351 CF8	A351 CF8M	A216 WCB
2	Gasket一	PTFE/RPTFE		
3	Seat shelf	A351 CF8	A351 CF8M	A216 WCB
4	Ball	SUS304/SUS316		
5	Body	A351 CF8	A351 CF8M	A216 WCB
6	Seat	PTFE/RPTFE/PPL/PEEK		
7	Gasket二	PTFE/RPTFE		
8	Bolt	SUS304		
9	Anti static decice	SUS304		
10	Stem	SUS304/SUS316		
11	Stem washer	PTFE/RPTFE		
12	O-ring	FKM/VITON		
13	V-ring packing	PTFE/RPEFE		
14	Gland	SUS304		
15	Spring	SUS301		
16	Stop bolt	SUS304		
17	Stem nut	SUS304		
18	Stop lock cap	SUS304		
19	Washer	SUS304		
20	Handle	SUS304		
21	Capping	A351 CF8	A351 CF8M	A216 WCB

Three/four-way Ball Valve <<



Dimensions (National standard three-way, four-way flange ball valve) Unit:mm

SIZE	DN	L	D	D1	D2	t	C	N-φd	H	H1	W	A	B	R	r
DN15	15	152	95	65	45	2	16	4-φ14	75	44	134	42	36	3	3
DN20	20	167	105	75	55	2	18	4-φ14	90	56.5	134	50	42	3.5	3
DN25	25	190	115	85	65	2	18	4-φ14	102	64	170	50	42	3.5	3
DN32	32	208	140	100	78	2	18	4-φ18	124	78	215	70	50	4.5	3.5
DN40	38	230	150	110	85	3	18	4-φ18	150	96	300	102	70	6	5
DN50	50	254	165	125	100	3	20	4-φ18	158	100	300	102	70	6	5

Dimensions (American standard three-way, four-way flanged ball valve) Unit:mm

SIZE	DN	L	D	D1	D2	t	C	N-φd	H	H1	W	A	B	R	r
1/2"	15	152	90	60.5	35	2	10	4-φ16	75	44	134	42	36	3	3
3/4"	20	167	100	70	43	2	11	4-φ16	90	56.5	134	50	42	3.5	3
1"	25	190	110	79.5	51	2	12	4-φ16	102	64	170	50	42	3.5	3
1 1/4"	32	208	115	89	63.5	2	13	4-φ16	124	78	215	70	50	4.5	3.5
1 1/2"	38	230	125	98.5	73	2	15	4-φ16	150	96	300	102	70	6	5
2"	50	254	150	120.5	92	2	16	4-φ19	158	100	300	102	70	6	5

Dimensions (Japanese standard three-way, four-way flange ball valve) Unit:mm

SIZE	DN	L	D	D1	D2	t	C	N-φd	H	H1	W	A	B	R	r
1/2"	15	152	95	70	52	1	12	4-φ15	75	44	134	42	36	3	3
3/4"	20	167	100	75	58	1	14	4-φ15	90	56.5	134	50	42	3.5	3
1"	25	190	125	90	70	1	14	4-φ19	102	64	170	50	42	3.5	3
1 1/4"	32	208	135	100	80	2	16	4-φ19	124	78	215	70	50	4.5	3.5
1 1/2"	38	230	140	105	85	2	16	4-φ19	150	96	300	102	70	6	5
2"	50	257	155	120	100	2	16	4-φ19	158	100	300	102	70	6	5

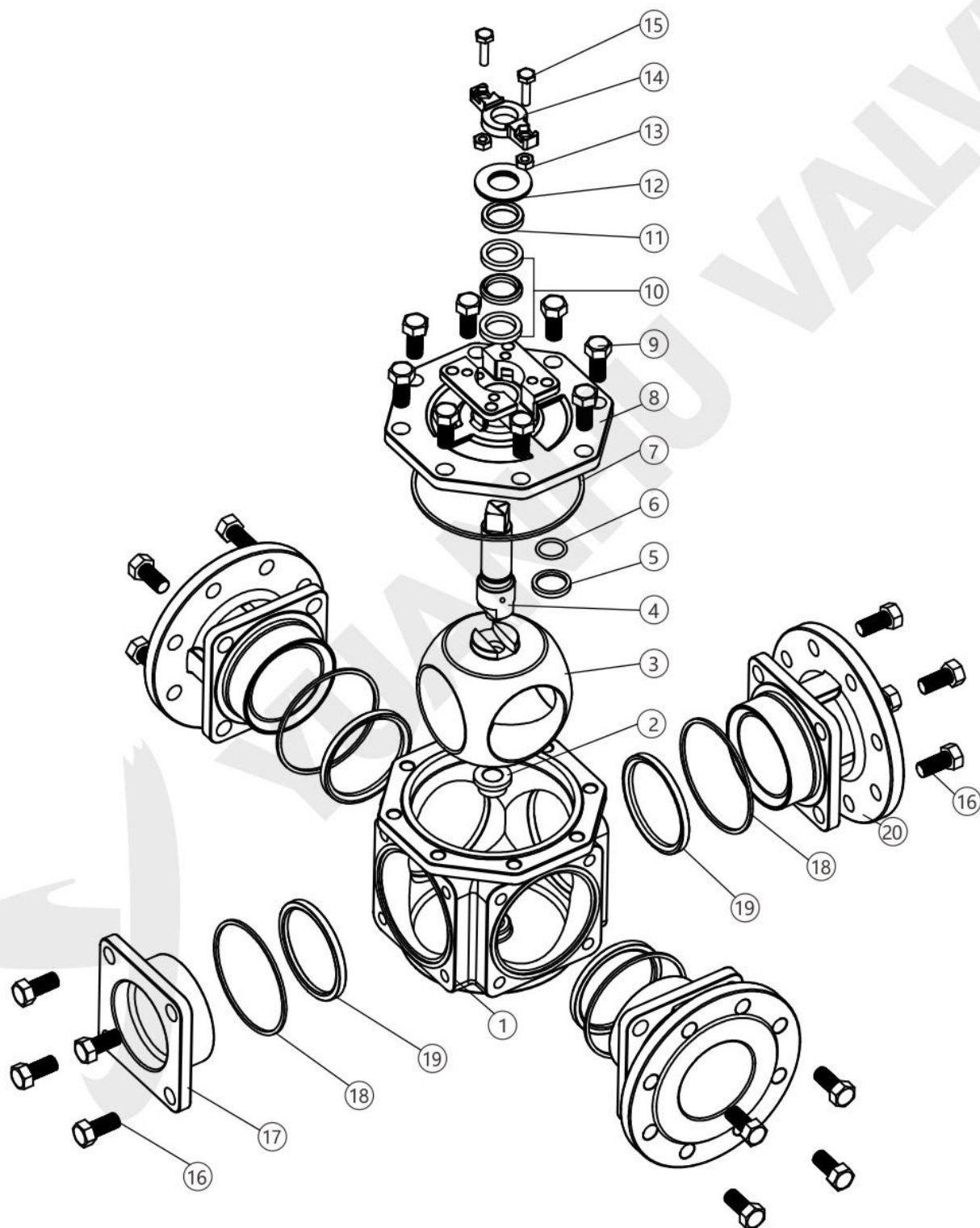
» Three/four-way Ball Valve



Q44F/Q45F-16P

NUMBER	NAME	MATERIAL		
1	Body	A351 CF8	A351 CF8M	A216 WCB
2	Bearing	TFM1600	TFM1600	TFM1600
3	Ball	SS304	SS316	SS304
4	Stem	SS304	SS316	SS304
5	StemWasher	TFM1600	TFM1600	TFM1600
6	O-Ring	VITON (KFM)	VITON(KFM)	VITON(KFM)
7	Gasket	TFM1600	TFM1600	TFM1600
8	Bracket	A351 CF8	A351 CF8M	A216 WCB
9	Bolt	SS304	SS304	SS304
10	V-Ring Packing	TFM1600	TFM1600	TFM1600
11	Gland	SS304	SS304	SS304
12	Belleville Washer	SS301	SS301	SS301
13	Nut	SS304	SS304	SS304
14	Gland Flange	A351 CF8	A351 CF8M	A216 WCB
15	Bolt	SS304	SS304	SS304
16	Bolt	SS304	SS304	SS304
17	Cap	A351 CF8	A351 CF8M	A216 WCB
18	Gasket	TFM1600	TFM1600	TFM1600
19	Seat	TFM1600	TFM1600	TFM1600
20	Cap	A351 CF8	A351 CF8M	A216 WCB

Three/four-way Ball Valve <<

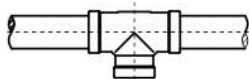
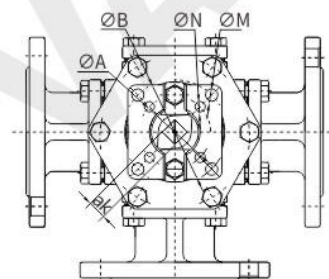
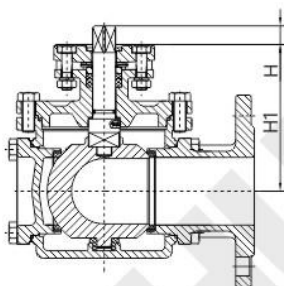
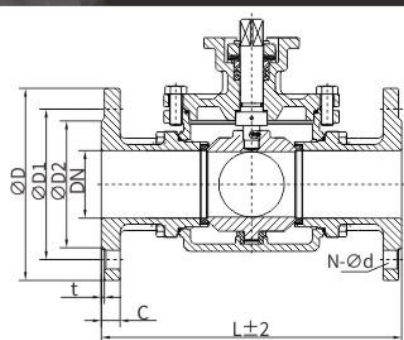


» Three/four-way Ball Valve

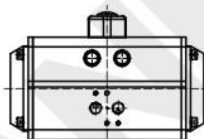
Q44F/Q45F-16P

STANDARDS:

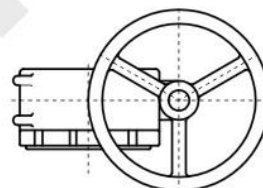
Design DIN 3357, ANSI B16.34, BS5351
 Face to face: Enterprise standards
 End: DIN 2633, (HG20592, GB/9113) PN10-PN40
 ANSI B16.5 CLASS 150/300
 Testing: API 598, EN12266
 Mounting pad: ISO 5211



Handle

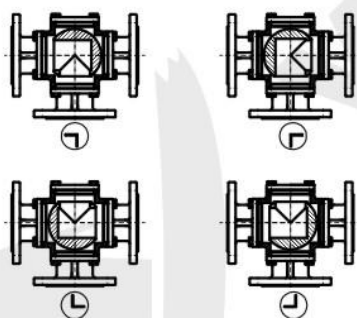


Actuators

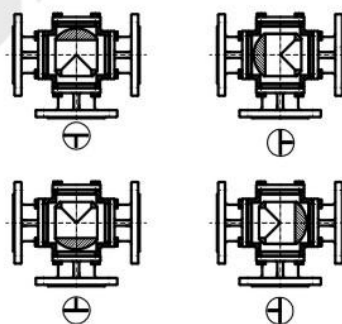


Worm drive

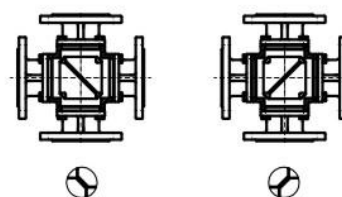
3-Way L-Port



3-Way T-Port



4-Way X-Port



Dimensions

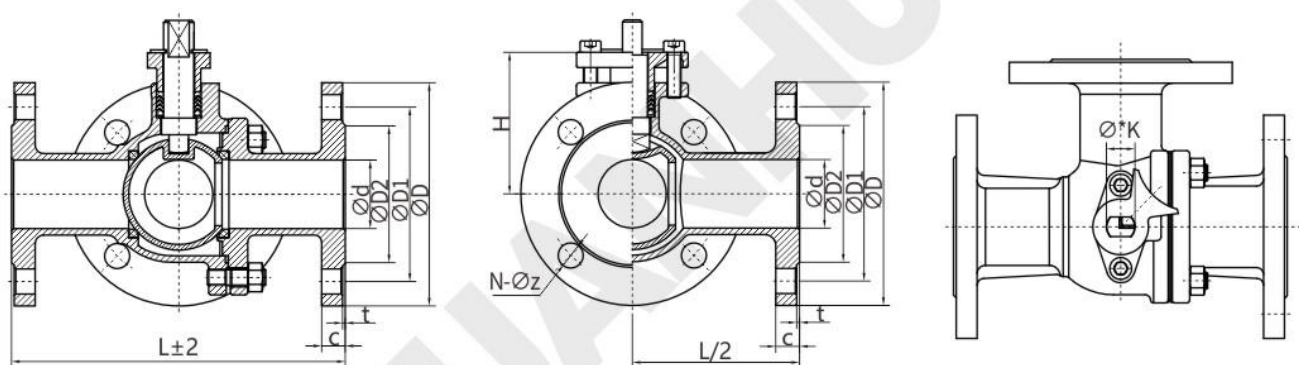
Unit:mm

SIZE	DN	D	D1	D2	t	C	N- ϕ d	L	L1	H	H1	K	A	B	M	N
2½"	64	185	145	122	3	18	4- ϕ 18	290	145	18	135	17	70	102	12	10
3"	76	200	160	138	3	20	8- ϕ 18	310	155	18	140	17	70	102	12	10
4"	96	220	180	158	3	20	8- ϕ 18	352	176	22	175	22	102	125	14	12
5"	122	250	210	188	3	22	8- ϕ 18	420	210	27	203	22	102	125	14	12
6"	147	285	240	212	3	22	8- ϕ 22	510	255	36	260	27	140	125	18	16

Manual 3-Way Flanged Ball Valve <<

Technical requirements

1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve shall comply with the regulations of JB/T79.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.



PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN25-100			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6			Air		
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

» Manual 3-Way Flanged Ball Valve



Q45F-16P

Technical requirements

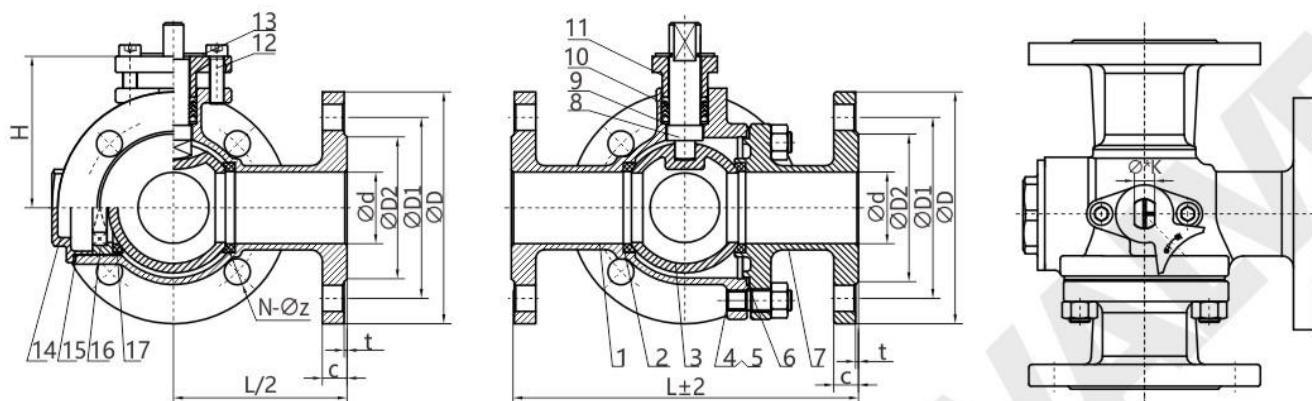
1. The design and manufacture of the valve are in accordance with the provisions of GB/T 12237.
2. The structural length of the valve is in accordance with the provisions of GB/T 12221.
3. The connecting flange of the valve shall comply with the regulations of JB/T79.
4. The inspection and test of the valve shall be in accordance with the provisions of GB/T 26480.

PERFORMANCE SPECIFICATIONS

Nominal pressure				PN16			
Nominal diameter				DN25-100			
Test pressure	Strength test	2.4	Mpa	Test medium	Water	Test temperature	Normal Temperature
	Seal test	1.8					
	Air tightness test	0.6			Air		
Applicable media		water oil etc					
Maximum operating temperature		-29~120℃					

NUMBER	CODE	NAME	QUANTITY	MATERIAL	WEIGHT		REMARK
1	Q45F-16P-05	valve body	1	A351 CF8 /CF8M	single piece	total	
2	Q45F-16P-15	sealing ring	3	PTFE/RPTFE			Customized parts
3	Q45F-16P-10	sphere	1	SS304/SS316			
4	GB/T 901-1988	Stud	6	SS304			Standard Parts
5	GB/T 6170-2000	nut	6	SS304			Standard Parts
6	Q45F-16P-02	sealing line	1	PTFE/RPTFE			Customized parts
7	Q45F-16P-01	cap	1	A351 CF8 /CF8M			
8	Q45F-16P-03	stem	1	SS304 /SS316			Customized parts
9	Q44F-16P-08	Anti-flying gasket	1	F304			Borrow Piece
10	Q44F-16P-07	filler	1	PTFE/RPTFE			
11	Q44F-16P-09	gland	1	A351 CF8			
12	GB/T 5780-2000	Hexagon socket head bolt	2	SS304			Standard Parts
13	Q45F-16P-17	positioning lock block	1	SS304			Standard Parts
14	Q45F-16P-12	back cover	1	A351 CF8			
15	Q45F-16P-02	sealing line	1	PTFE/RPTFE			Customized parts
16	Q44F-16P-09	seat ring	1	A351 CF8			
17	Q45F-16P-15	sealing ring	1	PTFE/RPTFE			Customized parts

Manual 3-Way Flanged Ball Valve <<



Dimensions (Machinery Department)

Unit:mm

SIZE	d	D	D1	D2	C	t	L	H	φ *K	N- φ z
1"	25	115	85	65	14	2	180	72	14*9	4-φ14
1¼"	32	135	100	78	16	2	200	85	18*12	4-φ18
1½"	40	145	110	85	16	3	220	90	18*12	4-φ18
2"	50	160	125	100	16	3	240	105	22*14	4-φ18
2½"	65	180	145	120	18	3	260	112	22*15	4-φ18
3"	80	195	160	135	20	3	280	125	24*16	8-φ18
4"	100	215	180	155	20	3	320	155	28*17	8-φ18

Dimensions (Ministry of Chemical Industry)

SIZE	d	D	D1	D2	C	t	L	H	φ *K	N- φ z
1"	25	115	85	65	18	2	180	72	14*9	4-φ14
1¼"	32	140	100	78	18	2	200	85	18*12	4-φ18
1½"	40	150	110	85	18	3	220	90	18*12	4-φ18
2"	50	165	125	100	18	3	240	105	22*14	4-φ18
2½"	65	185	145	120	18	3	260	112	22*15	6-φ18
3"	80	200	160	135	20	3	280	130	24*16	8-φ18
4"	100	220	180	155	20	3	320	155	28*17	8-φ18