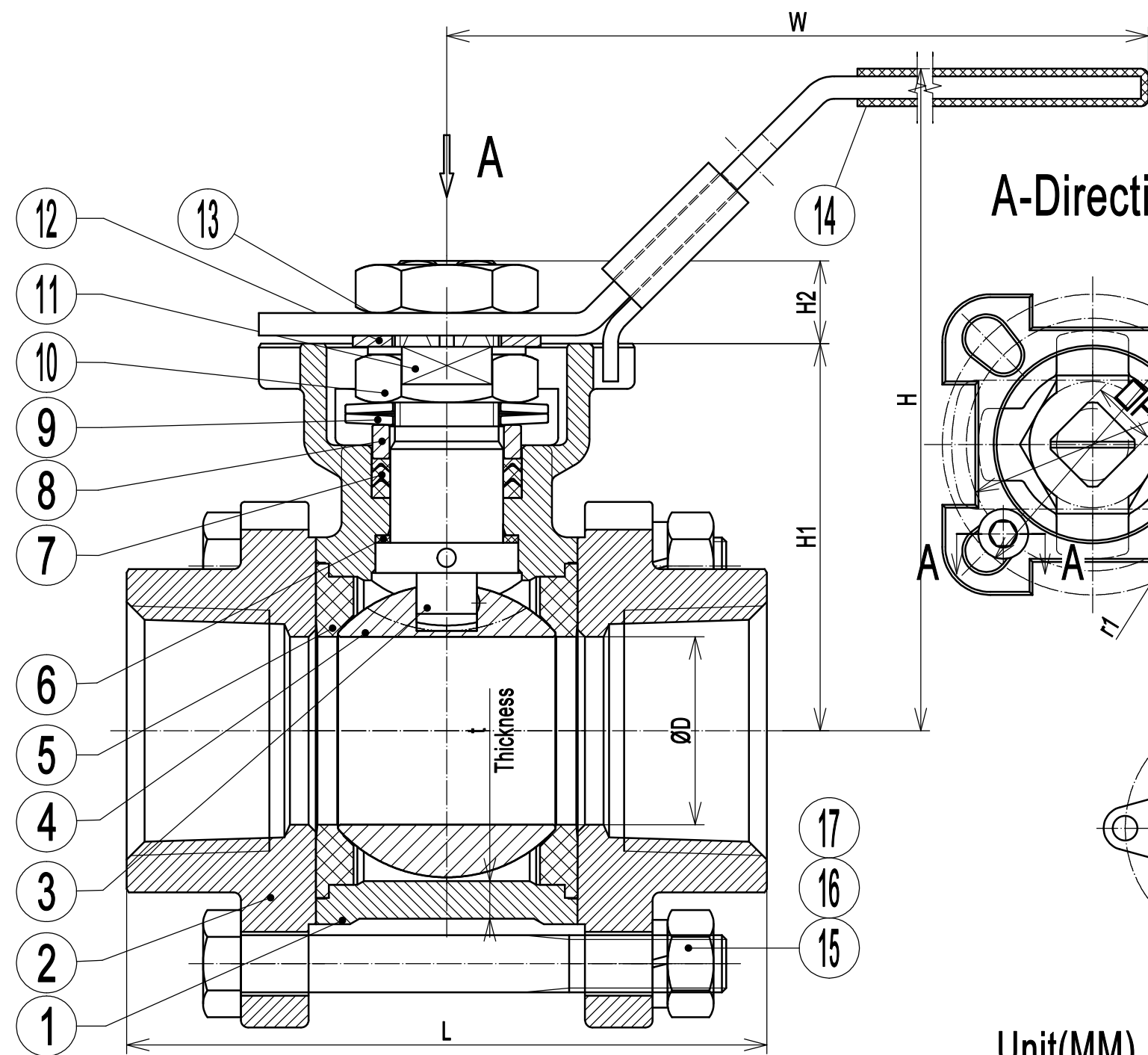
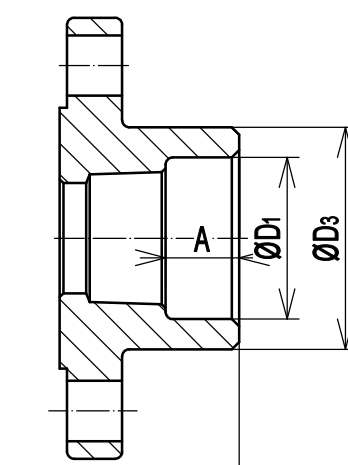
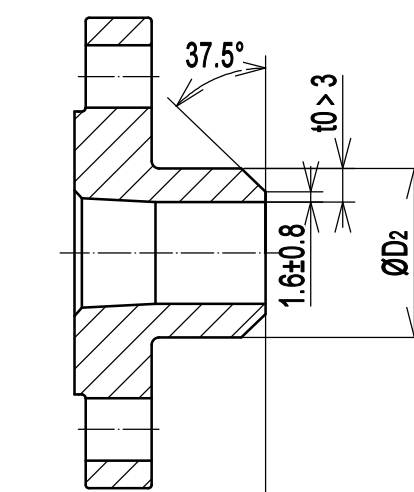




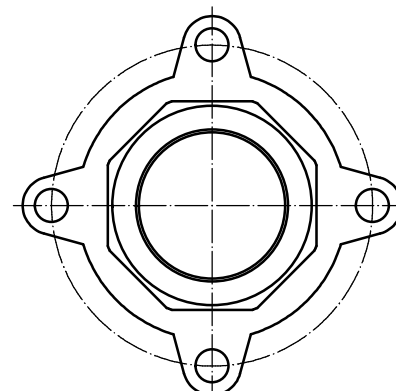
A-Direction



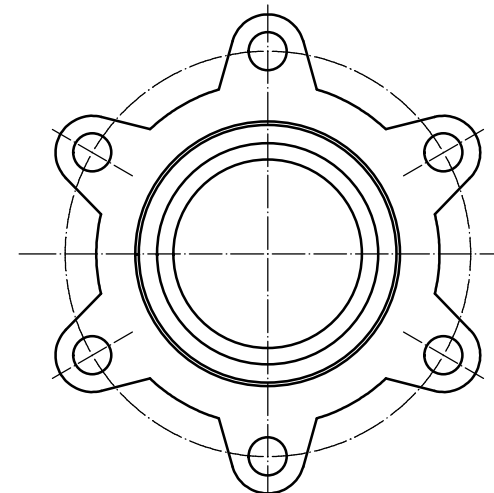
Socket welding Ends
Q321(8)7A-00



Butt welding Ends
Q361(8)7A-00



1/4" ~ 3"



4"

Unit(MM)

DESIGN SPECIFICATION

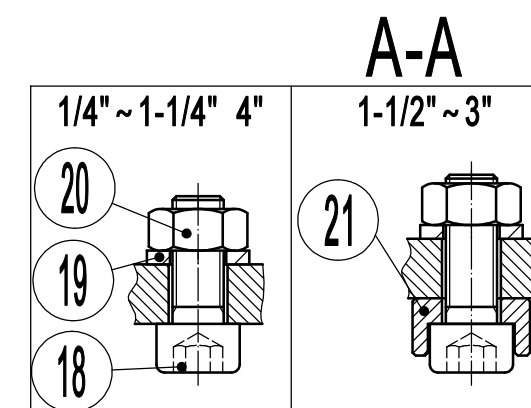
- Threaded ends and Socket welding ends's wall thickness design standard: ASME B16.34; 3",4" Not within the scope of this standard
- Socket welding end design standard: ASME B16.11
- F2F: factory standard
- Pressure Level: Check the specification table
- Test standard: API598;
- Working temperature: -29°C ~ 200°C
- Non-Fire safe design valve
- End connections: NPT BSPP BSPT
- BW Ends: Pipe thickness as per ASME B36.10
Weld end prep as per ASME B16.25 for wall thickness above 3mm
Weld end prep as per manufacturer standard for wall thickness below 3mm

SIZE	NUT	BOLT
1/4"	M6	M6×46(ThreadLength12)
3/8"		
1/2"	M8	M8×51(ThreadLength14)
3/4"		M8×60(ThreadLength15)
1"	M8	M8×67(ThreadLength16)
1 1/4"	M10	M10×79(ThreadLength18)
1 1/2"	M10	M10×87(ThreadLength18)
2"	M12	M12×110(ThreadLength25)
2 1/2"	M14	M14×133(ThreadLength25)
3"	M16	M16×153(ThreadLength30)
4"	M18	M18×184(ThreadLength35)

SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
L	64		72	80	85	105	113	132	170	186.5	226.5
D	11	12.5	15	20	25	32	38	50	65	76	94
W	112	112	141	141	162	162	188	188	225	225	320
H	64		75	77	90	94	108	117	147	157	188
H1	41.5		40.5	43	51.5	56	69	77.5	100	110	137
H2	8.5		9	9	11	11	14	14	19	19	22
F	9		9	9	11	11	14	14	17	17	22
A	10		10	13	13	13	13	16	16	16	19
D ₁	14.6	18	22.2	27.6	34.3	43.1	49.2	61.7	74.4	90.1	115.7
D ₂	13.72	17.14	21.34	26.67	33.40	42.16	48.26	60.32	73.02	88.9	114.3
D ₃	20.2	23.8	30.2	37.3	44.6	55.3	62.5	76.4	90	107	134
t0-10	1.65	1.65	2.11	2.11	2.77	2.77	2.77	2.77	3.05	3.05	3.05
t0-40	2.24	2.31	2.77	2.87	3.38	3.56	3.68	3.91	5.16	5.49	6.02
T0-80	3.02	3.20	3.73	3.91	4.55	4.85	5.08	5.54	7.01	7.62	8.56
t	4.00	4.00	4.00	4.25	5.00	5.20	5.75	6.75	7.00	7.25	8
d1	36		36		42		50		70		
d2	42		42		50		70		102		
r1	3		3		3		3.5		4.5		
r2	3		3		3.5		4.5		5.5		
ISO5211	F03/F04		F03/F04		F04/F05		F05/F07		F07/F10		
Weight(Kg)	0.58	0.55	0.695	0.87	1.29	2.0	2.915	4.27	8.565	11.975	22.655

Pressure	CL400	
Valve Size	1/4" ~ 2"	
Body Material	WCB	CF8/CF8M
Shell Test	104bar	100bar
High-pressure closure(water)	76bar	74bar
Low-pressure closure(gas)	6bar	6bar
Min. test duration	15s	

Pressure	CL300	
Valve Size	2 1/2", 3", 4"	
Body Material	WCB	CF8/CF8M
Shell Test	77bar	75bar
High-pressure closure(water)	57bar	55bar
Low-pressure closure(gas)	6bar	6bar
Min. test duration	60s	



21	LOCKING PIN	1	A240-304	only 1 1/2 ~ 3
20	NUT	1	A2-70	
19	WASHER	1	A240-304	
18	SCREW	1	A2-70	
17	SPRING WASHER	4	A276-304	4" 6
16	BOLT	4	A2-70	4" 6
15	NUT	4	A2-70	4" 6
14	HANDLE SLEEVE	1	PVC	
13	HANDLE	1	A240-304	
12	WASHER	1	A240-304	
11	LOCKING WASHER	1	A240-304	
10	NUT	2	A182-F304	
9	SPRING WASHER	2	A240-301	
8	PACKING GLAND	1	A182-304	
7	STEM PACKING	1SET	PTFE	1/4-3/8 " (1EA)
6	GASKET	1	PTFE	
5	SEAT	2	TFM1600	
4	BALL	1	A276-316	A276-304
3	STEM	1	A182-F316	A182-304
2	CAP	2	A351-CF8M	A216-WCB A351-CF8
1	BODY	1	A351-CF8M	A216-WCB A351-CF8
NO.	Item	Qty	Material	Remark

DATE	2026.3.27	DRAWN	Yeshuai.Q	PART NAME	3PC Threaded Ball Valve (butt&socket)	
TOLERANCE	ISO 2768-1	SCALE	1:1	MATERIALS	CF8M&CF8	
		JOB NO.	N/A	DRAWING NO.	XX-Q3187A-00	

Guardian
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