



Hydronic Valves

TECHNICAL SPECIFICATIONS SUBMITTAL FORM

Job Name:	Submittal Date:	Wholesaler:
Job Location:	Engineer/Architect:	Contractor:

Product Use:

A range of valves to include boiler drain valves, water ball valves, press ball valves, and gas shut off valves for use in hydronics applications.

Design and Features:

- Boiler Drain Valves and Quarter Turn Boiler Drain Valves are multi-purpose
- Gas Shut Off Valves feature PTFE seats and NBR O-Rings to reduce contamination buildup
- Ball Valves have a lead-free, full port forged brass body, while Leaded Ball Valves have a leaded brass body
- Ball Valves have a packing gland and O-ring on stem for reliable seal

Operating Specifications:

- Maximum Working Pressure: 125 PSI/Maximum Temperature: 150.80°F (66°C) - Boiler Drain Valves, and Quarter Turn Boiler Valves
- Maximum Working Pressure: 250 PSI/Maximum Temperature: 203°F (95°C) - Gas Shutoff Valves, and Water Press Ball Valves
- Maximum Working Pressure: 600 PSI/Working Temperature: 20 to 300 °F (-28 to 148 °C) . - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain, Water Threaded Ball Valves, and Water Threaded Ball Valves with Drain

Certifications and Approvals:

- ANSI B1.20.01 - Gas Shut Off Valves, Boiler Drain Valves, and Quarter Turn Boiler Valves
- ANSI B1.20.07 - Boiler Drain Valves, and Quarter Turn Boiler Valves
- ASME B16.51 - Water Press Ball Valves
- ASME B16.18/ASME B1.20.1 - Leaded Water Sweat Ball Valves
- ASME A112.18 .1/CSA B125.1 - Boiler Drain Valves, and Quarter Turn Boiler Valves
- CSA Approved - Water Sweat Ball Valves, Water Sweat Ball Valves, Gas Shut Off Valves
- cUPC - Water Press Ball Valves, Water Sweat Ball Valves, Water Sweat Ball Valves with Drain, Boiler Drain Valves, and Quarter Turn Boiler Valves
- FM Approved - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain
- UL Certified - Water Sweat Ball Valves, Water Sweat Ball Valves with Drain
- NSF61 Approved, and conform to NSF372





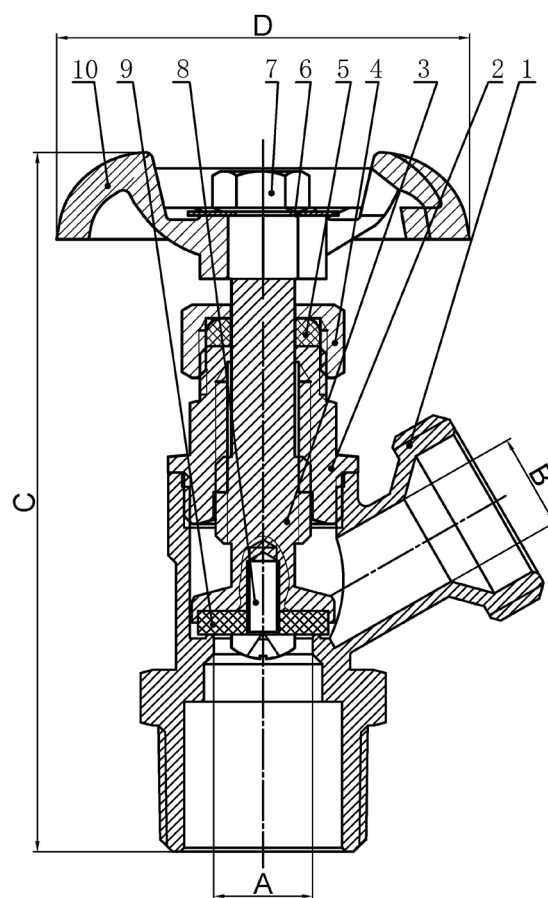
Boiler Drain Valves

Dimensions

	PART #	SIZE	A (IN)	B (IN)	C (IN)	D (IN)	WEIGHT (LB)	WEIGHT (G)
	NBD-012	1/2"	0.428"	0.467"	3.416"	2.023"	0.428	194.1
	NBD-034	3/4"	0.428"	0.467"	3.502"	2.023"	0.472	214.1

Materials

#	PART	MATERIAL
1	BODY	LF Brass
2	GLAND	LF Brass
3	STEM	LF Brass
4	NUT	Brass
5	PACKING	Brass
6	NAMEPLATE	Aluminum Alloy
7	HANDLE NUT	Stainless Steel
8	SCREW	Brass
9	SEALING GASKET	EPDM
10	HANDLE	Cast Iron



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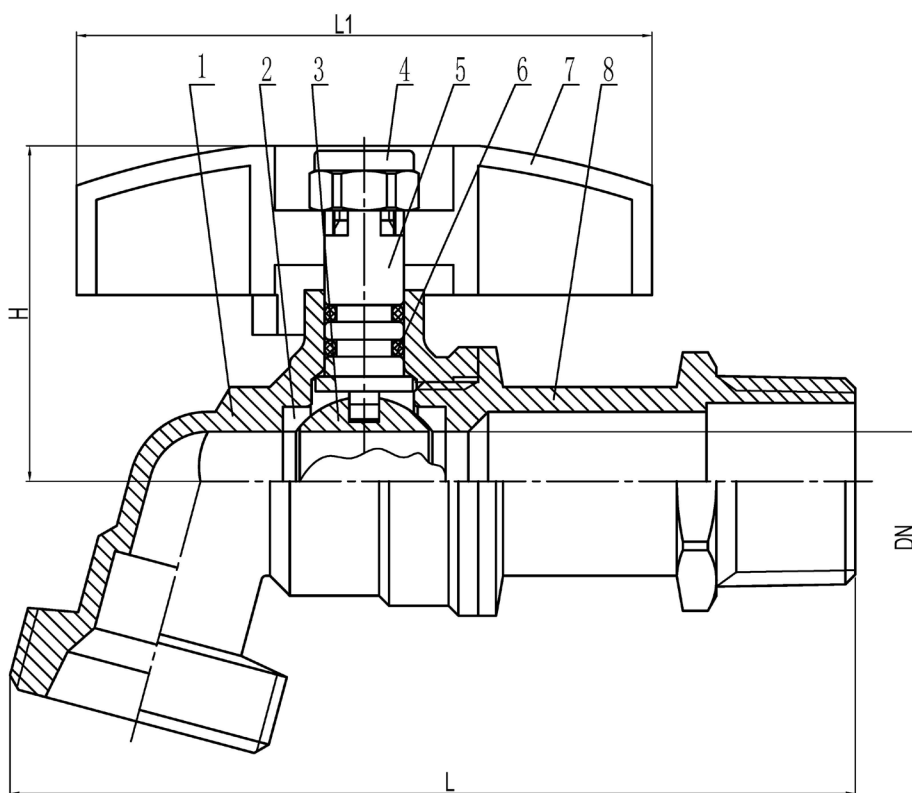
Quarter Turn Boiler Drain Valves

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	H (IN)	L1 (IN)	WEIGHT (LB)	WEIGHT (G)
	NBD-012	1/2"	0.389"	3.307"	1.362"	2.257"	0.403	182.8
	NBD-034	3/4"	0.584"	3.794"	1.498"	2.257"	0.575	260.8

Materials

#	PART	MATERIAL
1	BODY	LF Brass
2	SEALS	PTFE
3	BALL	LF Brass (Chrome Plated)
4	HANDLE NUT	Plated Steel
5	STEM	Brass
6	O-RING	EDPM
7	HANDLE	AL-Alloy
8	GLAND	LF Brass



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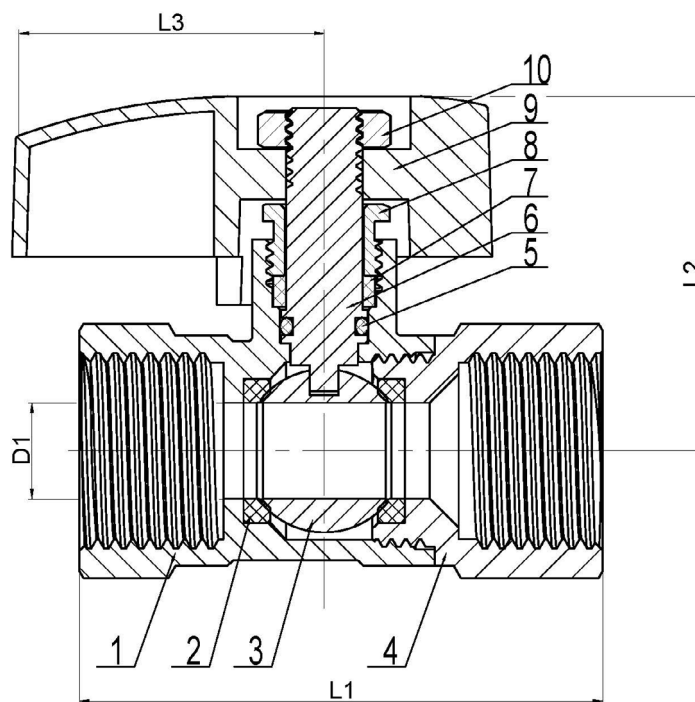
Straight Gas Shut Off Valves (FIP x FIP)

Dimensions

	PART #	SIZE	D1 (IN)	L1 (IN)	L2 (IN)	L3 (IN)	WEIGHT (LB)	WEIGHT (G)
	G01-2806	3/8"	0.311"	1.837"	1.409"	1.265"	0.258	117.0
	G01-2808	1/2"	0.389"	2.121"	1.420"	1.265"	0.331	150.1
	G01-2812	3/4"	0.584"	2.335"	1.576"	1.265"	0.481	218.2
	G01-2801	1"	0.739"	2.840"	1.868"	1.412"	0.761	345.2

Materials

#	PART	MATERIAL
1	BODY	Brass
2	SEAT	PTFE
3	BALL	Brass
4	CAP	Brass
5	O-RING	HNBR
6	STEM	Brass
7	PACKING	PTFE
8	PRESS CAP	Brass
9	HANDLE	Aluminum
10	ANTI-SLIP NUT	Iron



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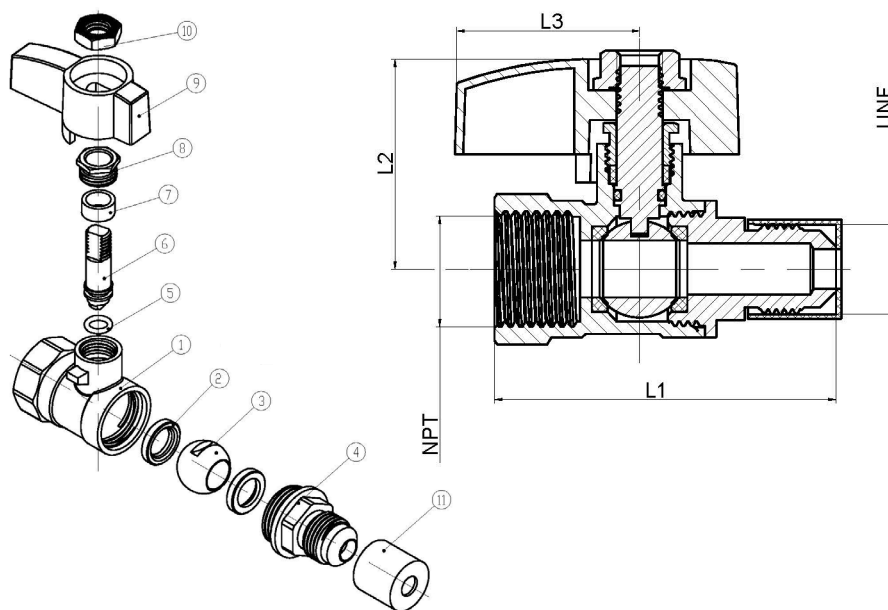
Straight Gas Shut Off Valves (Flare x FIP)

Dimensions

	PART #	SIZE	NPT	UNF	L1 (IN)	L2 (IN)	L3 (IN)	WEIGHT (LB)	WEIGHT (G)
	G01-387	3/8" x 1/2"	1/2" - 14	5/8" - 18	2.335"	1.420"	1.265"	0.32	145.1
	G01-487	1/2" x 1/2"	1/2" - 14	3/4" - 16	2.490"	1.401"	1.265"	0.353	160.1
	G01-587	5/8" (15/16) x 1/2"	1/2" - 14	15/16" - 16	2.626"	1.401"	1.265"	0.388	176.0
	G01-537	1/2" x 3/4"	3/4" - 14	3/4" - 16	2.724"	1.576"	1.265"	0.481	218.2
	G01-687	5/8" (15/16) x 3/4"	3/4" - 14	15/16" - 16	2.821"	1.576"	1.265"	0.527	239.0

Materials

#	PART	MATERIAL
1	BODY	Brass
2	SEAT	PTFE
3	BALL	Brass
4	GLAND	Brass
5	O-RING	HNBR
6	STEM	Brass
7	WASHER	PTFE
8	PACKING NUT	Brass
9	HANDLE	Aluminum
10	LOCK NUT	Steel
11	CAP	PVC



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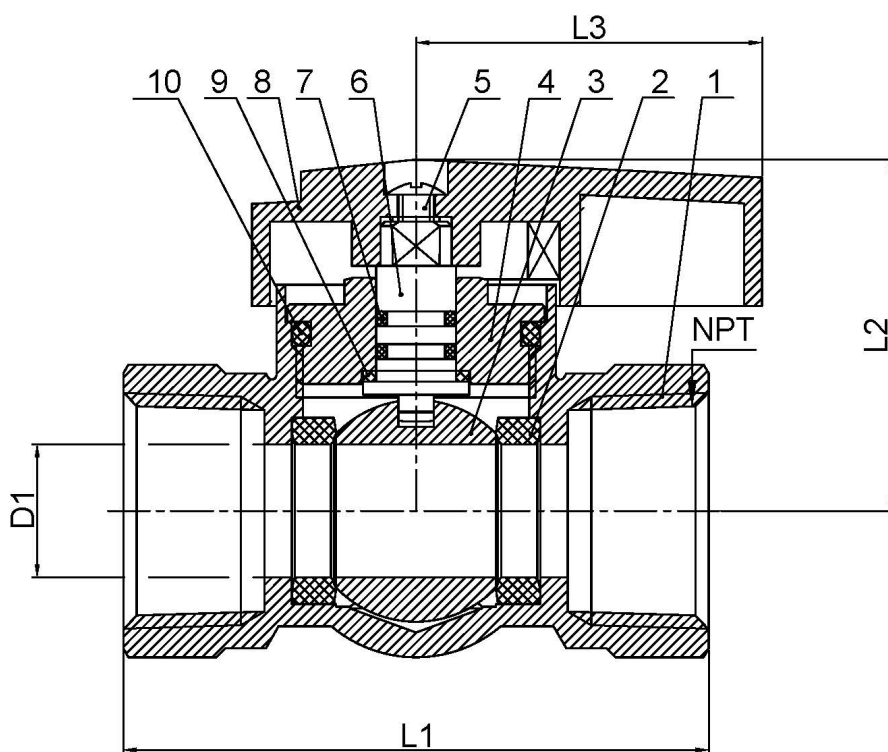
One Piece Valve Bodies

Dimensions

	PART #	SIZE	D1 (IN)	L1 (IN)	L2 (IN)	L3 (IN)	WEIGHT (LB)	WEIGHT (G)
	G01-2809-1PC	1/2"	0.389"	2.335"	1.401"	1.362"	1.003	176.0
	G01-2813-1PC	3/4"	0.584"	2.568"	1.518"	1.459"	0.388	271.2
	G01-2802-1PC	1"	0.739"	3.074"	1.759"	1.790"	0.598	455.0

Materials

#	PART	MATERIAL
1	BODY	Brass
2	SEAT	PTFE
3	BALL	Brass/Chrome Plated
4	CAP	Brass
5	SCREW	Plated Steel
6	STEM	Brass
7	SEALS	NBR
8	HANDLE	AL Alloy
9	PACKING	PTFE
10	O-RING	NBR



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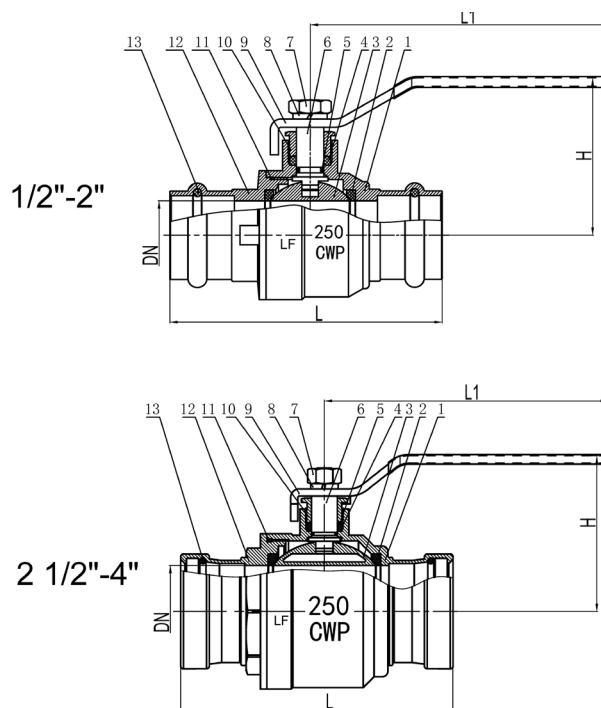
Water Press Ball Valves

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	L1 (IN)	H (IN)	WEIGHT (LB)	WEIGHT (G)
	NSV-012	1/2"	0.584"	3.152"	3.424"	1.790"	0.47	213.2
	NPV-034	3/4"	0.739"	3.560"	4.241"	2.070"	0.807	366.0
	NPV-100	1"	0.973"	3.872"	4.241"	2.226"	1.142	518.0
	NPV-114	1-1/4"	1.245"	4.358"	5.564"	2.498"	1.669	757.0
	NPV-112	1-1/2"	1.556"	5.292"	5.564"	2.712"	2.582	1171.2
	NPV-200	2"	1.918"	6.420"	5.564"	3.004"	3.585	1626.1
	NPV-212	2-1/2"	2.490"	7.374"	7.588"	4.202"	7.915	3590.2
	NPV-300	3"	2.860"	8.074"	8.093"	4.533"	10.203	4628.0
	NPV-400	4"	3.794"	9.767"	8.949"	5.428"	18.153	8234.1

Materials

#	PART	MATERIAL
1	BODY	LF Brass
2	SEALS	PTFE
3	BALL	Stainless Steel
4	PACKING	PTFE
5	WASHER	NBR
6	STEM	Brass (1/2" - 2")
		Stainless Steel (2-1/2" - 4")
7	HANDLE NUT	Plated Steel
8	LOCK DEVICE	Plated Steel
9	HANDLE	Plated Steel
10	PACKING NUT	Plated Steel
11	GASKET	NBR
12	GLAND	LF Brass
13	O-RING	EPDM



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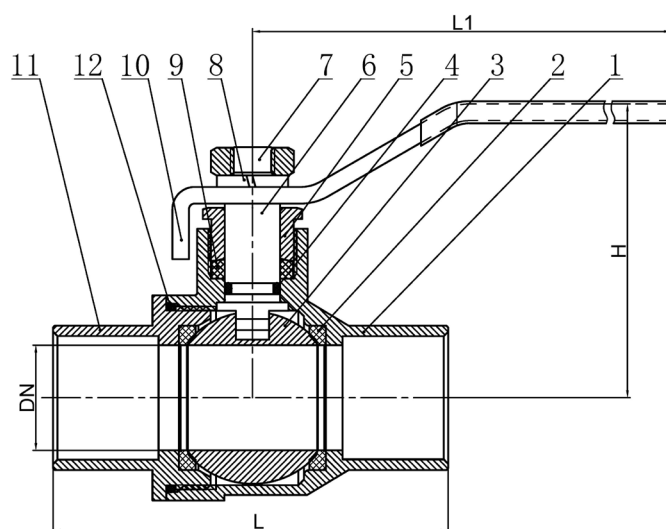
Water Sweat Ball Valves

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	L1 (IN)	H (IN)	LB	G
	NSV-012	1/2"	0.584	2.140	3.424	1.790	0.417	189.1
	NSV-034	3/4"	0.739	2.782	4.241	2.070	0.683	309.8
	NSV-100	1"	0.973	3.300	4.241	2.226	1.071	485.8
	NSV-114	1-1/4"	1.245	3.868	5.564	2.498	1.585	718.9
	NSV-112	1-1/2"	1.556	4.412	5.564	2.712	2.28	1034.2
	NSV-200	2"	1.918	5.389	5.564	3.004	3.596	1631.1
	NSV-212	2-1/2"	2.490	6.342	7.665	4.202	6.98	3166.1
	NSV-300	3"	2.860	7.062	8.093	4.533	8.856	4017.0
	NSV-400	4"	3.794	9.455	9.144	5.428	17.531	7951.9

Materials

#	PART	MATERIAL
1	BODY	LF Brass
2	SEALS	PTFE
3	BALL	Stainless Steel
4	WASHER	NBR
5	PACKING NUT	HNBR
6	STEM	Brass (1/2" - 2")
		Stainless Steel (2-1/2" - 4")
7	HANDLE NUT	Plated Steel
8	LOCK DEVICE	Plated Steel
9	PACKING	PTFE
10	HANDLE	Plated Steel
11	GLAND	LF Brass
12	O-RING	Viton



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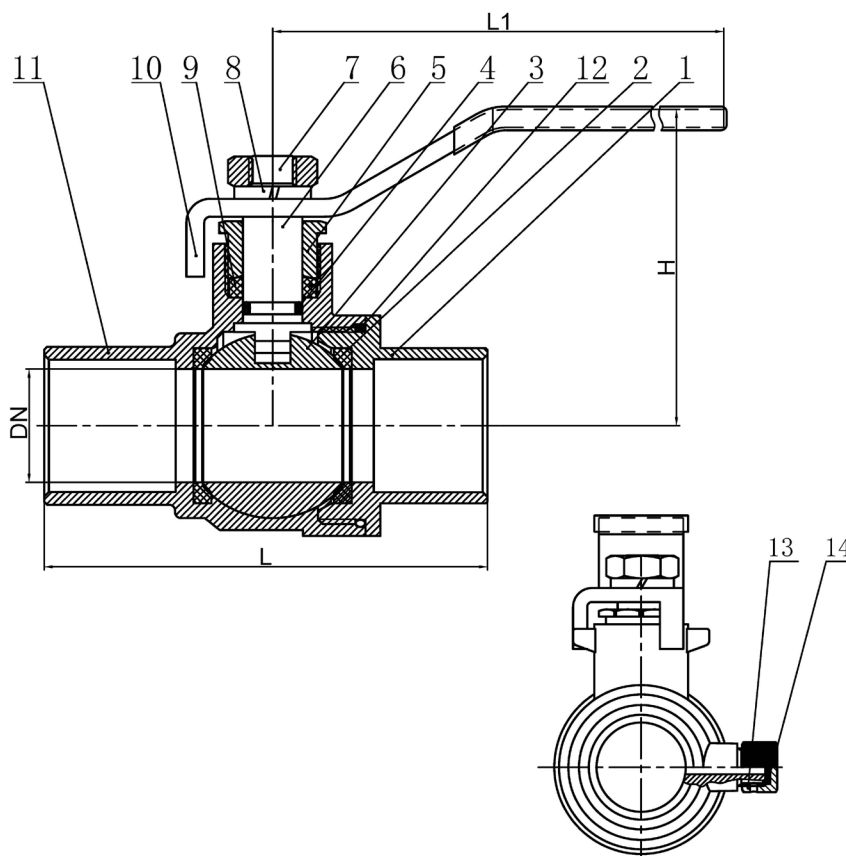
Water Sweat Ball Valves with Drain

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	L1 (IN)	H (IN)	WEIGHT (LB)	WEIGHT (G)
	NWD-012	1/2"	0.584"	2.276"	3.424"	1.790"	0.439	199.1
	NWD-034	3/4"	0.739"	2.899"	4.241"	2.070"	0.717	325.2

Materials

#	PART	MATERIAL
1	GLAND	LF Brass
2	SEALS	PTFE
3	BALL	Stainless Steel
4	WASHER	NBR
5	PACKING	PTFE
6	STEM	Brass
7	HANDLE NUT	Plated Steel
8	LOCK DEVICE	Plated Steel
9	HANDLE	Plated Steel
10	PACKING NUT	Brass
11	BODY	LF Brass
12	O-RING	Viton
13	SCREW	Brass
14	GASKET	EPDM



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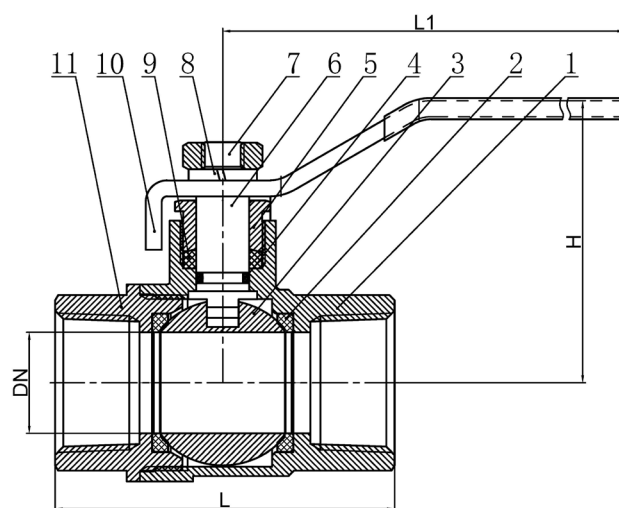
Water Threaded Ball Valves

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	L1 (IN)	H (IN)	LB	G
	NPS-038	3/8"	0.394"	1.752"	3.465"	1.681"	0.311	141.1
	NPS-012	1/2"	0.591"	2.244"	3.465"	1.811"	0.47	213.2
	NPS-034	3/4"	0.748"	2.520"	4.291"	2.094"	0.758	343.8
	NPS-100	1"	0.984"	2.972"	4.291"	2.252"	1.153	523.0
	NPS-114	1-1/4"	1.260"	3.445"	5.630"	2.528"	1.768	802.0
	NPS-112	1-1/2"	1.575"	3.878"	5.630"	2.744"	2.381	1080.0
	NPS-200	2"	1.941"	4.291"	5.630"	3.039"	3.499	1587.1
	NPS-212	2-1/2"	2.520"	5.531"	7.756"	4.252"	7.295	3309.0
	NPS-300	3"	2.894"	6.142"	8.189"	4.587"	9.749	4422.1

Materials

#	PART	MATERIAL
1	BODY	LF Brass
2	SEALS	PTFE
3	BALL	Stainless Steel
4	WASHER	NBR
5	PACKING NUT	Brass
6	STEM	Brass (1/4" - 2")
		Stainless Steel (2-1/2" - 3")
7	HANDLE NUT	Plated Steel
8	LOCK DEVICE	Plated Steel
9	PACKING	PTFE
10	HANDLE	Plated Steel
11	GLAND	LF Brass



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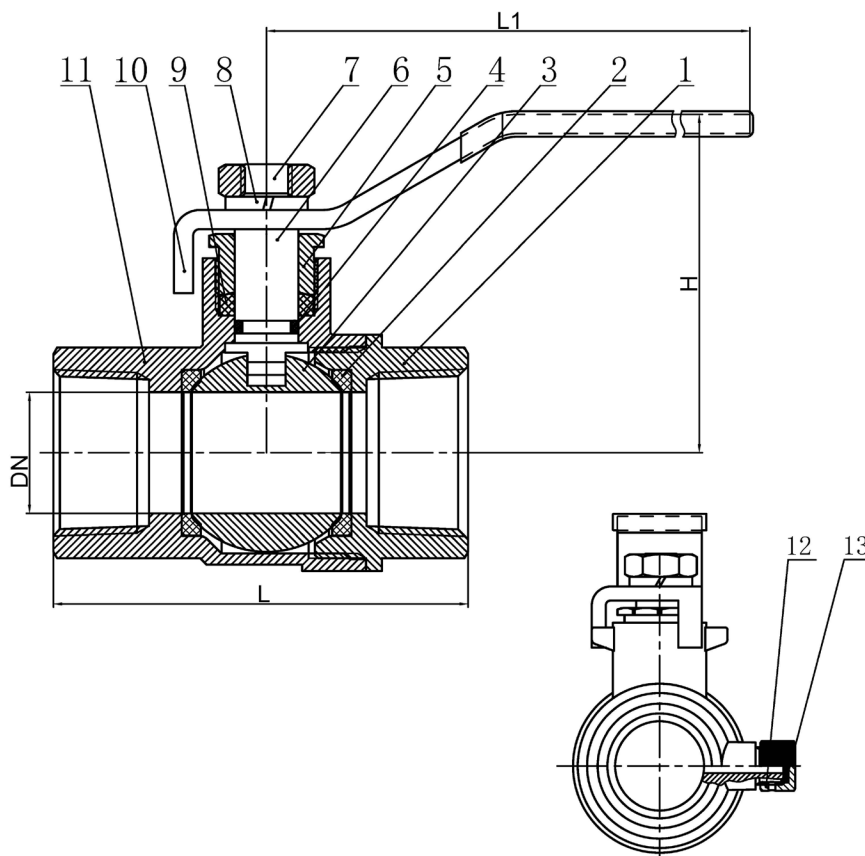
Water Threaded Ball Valves with Drain

Dimensions

	PART #	SIZE	DN (IN)	L (IN)	L1 (IN)	H (IN)	WEIGHT (LB)	WEIGHT (G)
	NTD-012	1/2"	0.584"	2.296"	3.424"	1.790"	0.507	230.0
	NTD-034	3/4"	0.739"	2.529"	4.241"	2.070"	0.787	357.0

Materials

#	PART	MATERIAL
1	GLAND	LF Brass
2	SEALS	PTFE
3	BALL	Stainless Steel
4	WASHER	NBR
5	PACKING	PTFE
6	STEM	Brass
7	HANDLE NUT	Plated Steel
8	LOCK DEVICE	Plated Steel
9	HANDLE	Plated Steel
10	PACKING NUT	Brass
11	BODY	LF Brass
13	SCREW	Brass
14	GASKET	EPDM



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