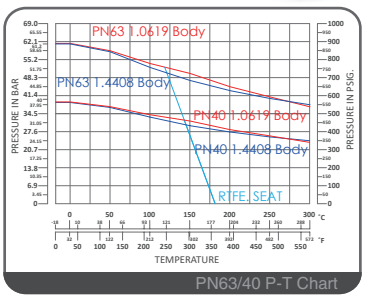
MODENTIC

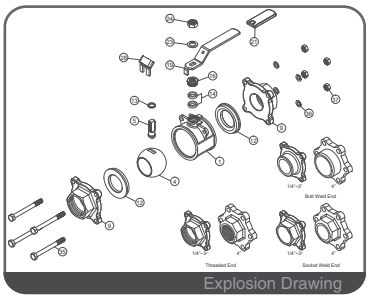
V-105

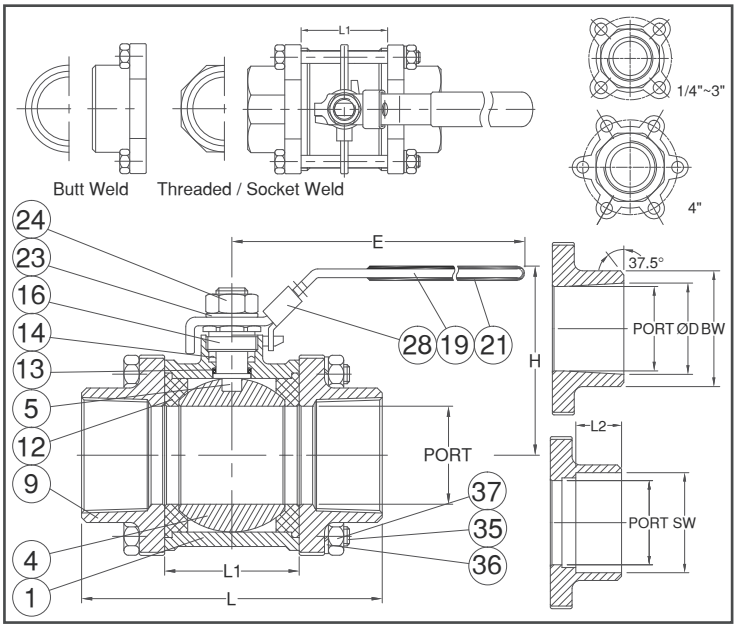
General Ball Valve

PN63 for DN8 ~ DN50
PN40 for DN65 ~ DN100
Full Bore



PN63/40 P-T Chart


Explosion Drawing



FEATURES

- Investment Cast Body Construction
- 3 Pieces Body Design
- In-Line Maintenance
- Integral Seat & Body Seal Design OPTION
- Blow-Out-Proof Stem Design
- Locking Device OPTION
- NACE MR0175 is available upon request
- Super Alloy materials for highly corrosive medium are available upon request

SPECIFICATIONS

• Size Range	DN8 ~ DN100 (1/4" ~ 4")
• End Connection	Threaded / Socket / Butt Weld Ends
• Working Pressure	PN63 for DN8 ~ DN50 PN40 for DN65 ~ DN100
• Steam Pressure	150 PSIG. Saturated Steam for PTFE.
• Temperature Range	-4 to 356 °F (-20 to 180 °C) for PTFE.

STANDARDS

• Design	EN-12516-1/2/3
• Threaded End	NPT/ BS 21 (BSP) / BSPT / ISO 228-1 / DIN 2999 / ISO 7-1Rp
• Socket Weld End	ASME/ANSI B16.11
• Butt Weld End	ASME/ANSI B16.25
• Face to Face	MFG / DIN 3202 M3/S13 OPTION
• Material	EN1503-1
• Pressure Testing	EN 12266

CERTIFICATE

• Quality Assurance	ISO 9001
• Material Certificate	EN 10204-3.1 MTR
• CE Approval	PED 2014/68/EU Module H

MATERIAL LIST

NO.	PART NAME	MATERIAL (more options available)
1	BODY	EN1503-1 1.4408
		EN1503-1 1.0619
4	BALL	ASTM A351 Gr.CF8M
5	STEM	ASTM A276 Gr.316
9	END CAP	EN1503-1 1.4408
		EN1503-1 1.0619
12	SEAT	PTFE.
13	THRUST WASHER	PTFE.
14	STEM PACKING	PTFE.
16	GLAND NUT	SS304
19	HANDLE	SS304
21	HANDLE COVER	PLASTIC
23	HANDLE WASHER	SS304
24	HANDLE NUT	SS304
28	LOCKING DEVICE	SS304 (OPTION)
35	BODY BOLT	SS304
36	BOLT WASHER	SS304
37	BOLT NUT	SS304

DIMENSION unit : mm

SIZE		PORT TH/SW	PORT BW	L	L1	E	H	L2	SW	ØD	BW
DN8	1/4"	11.5	11.0	54.0	19.0	97.4	49.0	10	14.2	11.0	13.7
DN10	3/8"	12.5	12.5	54.0	19.0	97.4	49.0	10	17.5	12.5	17.1
DN15	1/2"	15.0	15.0	63.5	22.5	122.9	58.0	10	21.8	15.8	21.3
DN20	3/4"	20.0	20.0	72.5	27.5	122.9	61.0	13	27.4	20.9	26.7
DN25	1"	25.0	25.0	81.0	34.0	144.9	68.0	13	34.1	26.6	33.4
DN32	1-1/4"	32.0	32.0	94.5	42.5	144.9	73.5	13	42.7	35.1	42.2
DN40	1-1/2"	38.0	38.1	108.0	52.0	188.9	84.5	13	49.0	40.9	48.3
DN50	2"	50.0	50.0	121.5	63.5	188.9	93.2	16	61.0	52.5	60.3

DIMENSION unit : inch

SIZE		PORT TH/SW	PORT BW	L	L1	E	H	L2	SW	ØD	BW
DN8	1/4"	0.45	0.43	2.12	0.74	3.83	1.92	0.39	0.55	0.43	0.53
DN10	3/8"	0.49	0.49	2.12	0.74	3.83	1.92	0.39	0.68	0.49	0.67
DN15	1/2"	0.59	0.59	2.50	0.88	4.83	2.28	0.39	0.85	0.62	0.83
DN20	3/4"	0.78	0.78	2.85	1.08	4.83	2.40	0.51	1.07	0.82	1.05
DN25	1"	0.98	0.98	3.18	1.33	5.70	2.67	0.51	1.34	1.04	1.31
DN32	1-1/4"	1.25	1.25	3.72	1.67	5.70	2.89	0.51	1.68	1.38	1.66
DN40	1-1/2"	1.49	1.50	4.25	2.04	7.43	3.32	0.51	1.92	1.61	1.90
DN50	2"	1.96	1.96	4.78	2.50	7.43	3.66	0.62	2.40	2.06	2.37

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www.modentic.com.tw
md_sales@ms.modentic.com.tw
No. 9, Wugong 6th Rd., Wufeng Dist., Taichung City 413, Taiwan (R.O.C.)
Tel : + 886 4 23317777 • Fax : + 886 4 23317771

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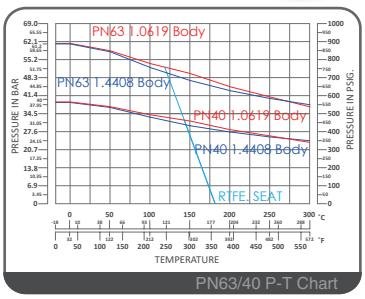
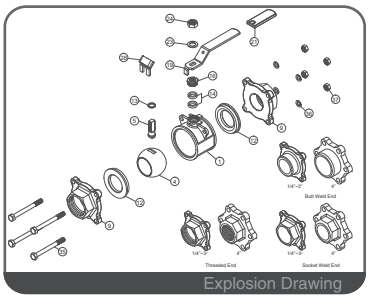


PN63/40 P-T Chart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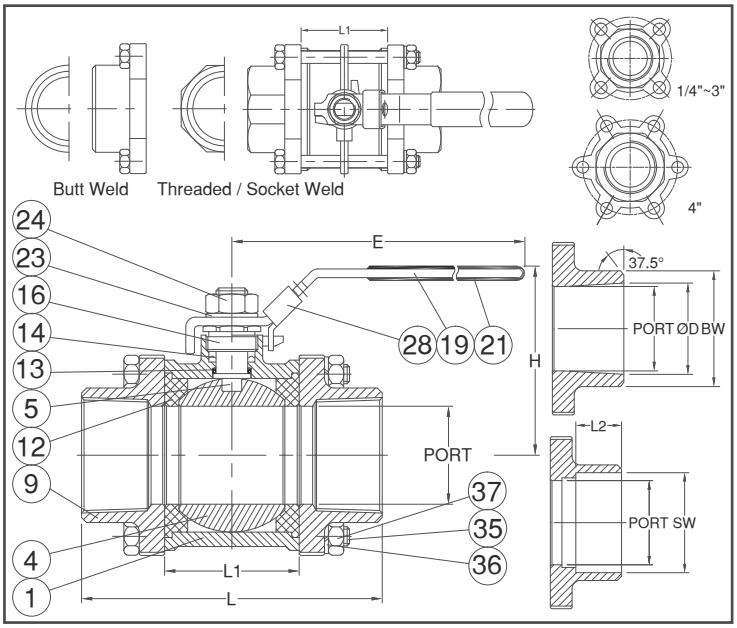

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37	BOLT NUT	SS304

DIMENSION unit : mm

SIZE		PORT TH/SW	PORT BW	L	L1	E	H	L2	SW	ØD	BW
DN65	2-1/2"	65.0	62.7	157.5	85.5	255.3	131.8	16	77.0	62.7	73.0
DN80	3"	80.0	77.9	190.0	102.0	260.8	140.0	16	90.2	77.9	88.9
DN100	4"	100.0	100.0	225.0	128.5	322.2	173.6	22	115.3	102.3	114.3

DIMENSION unit : inch

SIZE		PORT TH/SW	PORT BW	L	L1	E	H	L2	SW	ØD	BW
DN65	2-1/2"	2.55	2.46	6.20	3.36	10.05	5.18	0.62	3.03	2.46	2.87
DN80	3"	3.14	3.06	7.48	4.01	10.26	5.51	0.62	3.55	3.06	3.50
DN100	4"	3.93	3.93	8.85	5.05	12.68	6.83	0.86	4.53	4.02	4.50

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