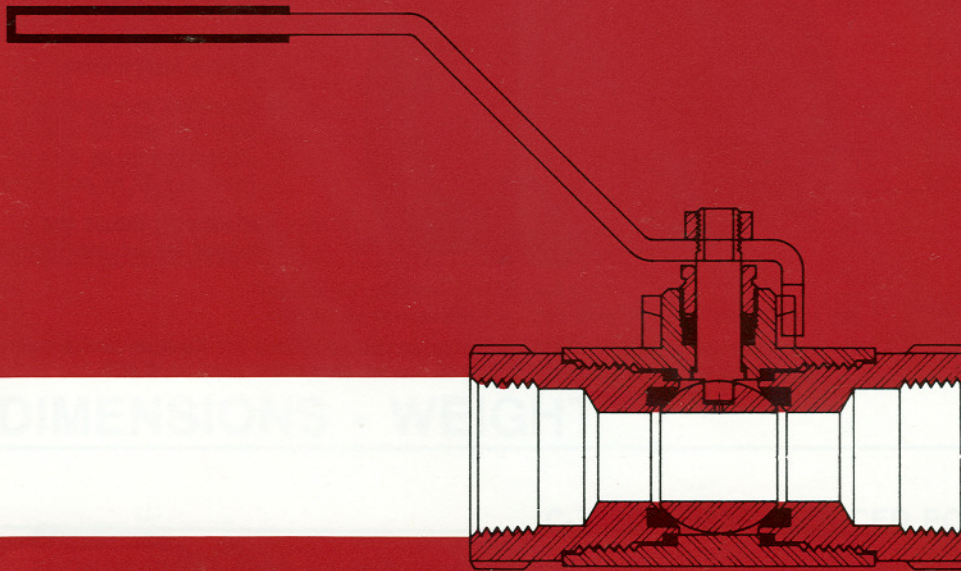


Series C-7350/7380
Series S-8350/8380
Roughneck High Pressure
and Pipeline Ball Valves



WATTS

Contromatics

A Division of KF Industries, Inc.

Series C-7350/7380 and S-8350/8380 Roughneck High Pressure and Pipeline Ball Valves

REDUCED PORT

Series C-7350 carbon steel
Series S-8350 stainless steel

FULL PORT

Series C-7380 carbon steel
Series S-8380 stainless steel

The Watts Roughneck Series High Pressure and Pipeline Ball Valves are designed to provide reliable long-lasting service in all moderate to high pressure applications.

Each valve is tested with air to insure bubble tight shut-off and also with water during hydrostatic shell test at 150% maximum rated pressure.

All stainless steel models and all 316 trim carbon steel valves comply with NACE MR-01-75 for sour gas service. In addition, all models are certified to comply with API 607 fire safe standard by an independent laboratory.

The Roughneck Series is the best, no compromise ball valve line available.

FEATURES:

- 316 trim models comply with NACE MR-01-75
- Fire safe to API 607, certified by an independent lab
- All wall thicknesses comply with ANSI B16.34, Class 1500
- Thread depths comply with ANSI B1.20.3
- Standard 304 stainless steel latch-lok handle on stainless steel models (S8350/S8380)

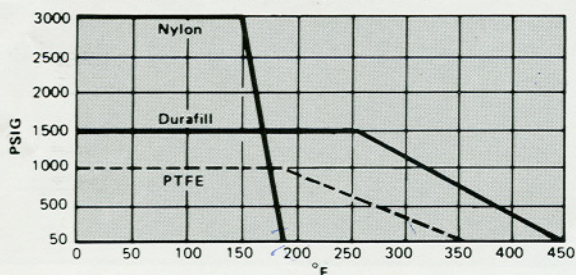


- All bodies are investment cast Grade WCB or Grade CF8M materials
- Full or reduced port in sizes 1/4" - 2 1/2"
- Standard grounded bottom loaded stem
- Operating pressures to 3000 PSI with 03 trim
4500 PSI with 08 trim
(Refer to F-SR for seat ratings)
- Standardly drilled and tapped for actuator mounting

All stainless steel models and all 316 S.S. trim carbon steel valves are C.G.A. (Canadian Gas Association) approved under "Non-Lubricated Gas Shut-off Valves" on standard #CAN1-3.16-M85.

CAPACITY

VALVE SEAT RATING (Full Port)



Some decrease in optimum seat life may be expected in some cases above 1000 PSI.

CV RATING

Red. Port	CV Rating	Full Port	CV Rating
3/4"	15	1/4", 3/8"	6
1"	30	1/2"	15
1 1/4"	50	3/4"	30
1 1/2"	75	1"	60
2"	110	1 1/4"	110
2 1/2"	200	1 1/2"	130
		2"	360

VALVE OPERATING TORQUE

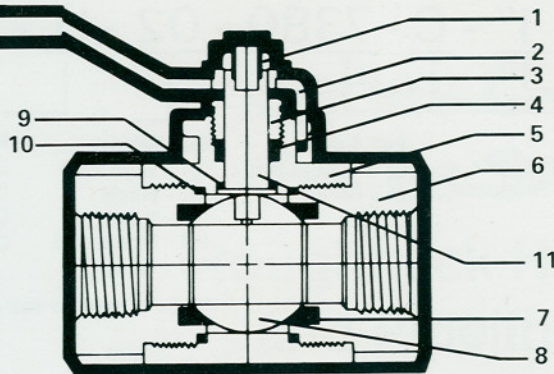
Valve Size Red. Port	Valve Size Full Port	PTFE and Durafill Max. Breakaway Torque (in Lbs.)	Nylon at 3000 PSI
—	1/4", 3/8"	60	170
3/4"	1/2"	60	170
1"	3/4"	150	200
1 1/4"	1"	200	320
1 1/2"	1 1/4"	250	500
2"	1 1/2"	320	850
2 1/2"	2"	500	1200

SPECIFICATIONS

Approved valves shall have bodies of WCB or CF8M material, bottom loaded grounded stem, pressure relieving seats, hard chrome plated carbon steel or 316 stainless steel ball. Valves shall be API 607 fire safe and

316 stainless steel trim models must comply with NACE MR-01-75. Valves must have a body pressure rating of at least 3000 PSI through 2" full port. Watts C-7350/7380, S-8350/8380.

MATERIALS



Series C-7350/7380 (carbon steel)

1	Handle Nut	Carbon steel plated
2	Handle	Extended length plated carbon steel
3	Packing Nut	AISI 12L14 carbon steel (AISI 316 stainless steel on S.S. models)
4	Packing	Graphite
5	Body	WCB investment cast carbon steel
6	Tailpiece	AISI 1018 carbon steel
7	Seat	Virgin PTFE, Durafill, Nylon*, Mineral-Filled PTFE*, Acetal*
8	Ball	Hard chrome plated AISI 12L14 carbon steel (316 S.S. w/S.S. option)
9	Thrust Washer	PTFE
10	Body Seal	PTFE
11	Stem	AISI 12L14 carbon steel (316 S.S. w/S.S. option) ★

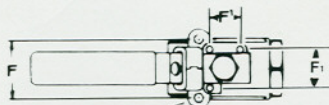
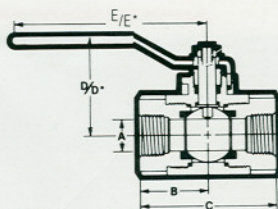
Series S-8350/8380 (stainless steel)

1	Handle Nut	AISI 304 stainless steel
2	Handle	AISI 304 stainless steel latch-lok
3	Packing Nut	AISI 316 stainless steel
4	Packing	Graphite
5	Body	Grade CF8M investment cast stainless steel
6	Tailpiece	AISI 316 stainless steel
7	Seat	Virgin Teflon, Durafill, Nylon, Mineral-Filled PTFE, Acetal
8	Ball	AISI 316 stainless steel
9	Thrust Washer	PTFE
10	Body Seal	PTFE
11	Stem	AISI 316 stainless steel ★

*Requires 316 stainless steel ball and stem

★ 410 hardened stainless steel with 03 and 08 options (1/4" - 2 1/2" Reduced Port, 1" - 2" Full Port sizes only)

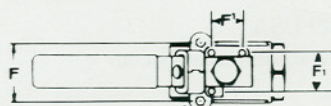
DIMENSIONS - WEIGHT



Panel/Actuator Mounting

F — 1/4" - 3/4" 10-24 UNC Threads 2 Holes

F1 — 1" - 2" 1/4- 20 UNC Threads 3 Holes



Panel/Actuator Mounting

F — 1/4" - 3/4" 10-24 UNC Threads 2 Holes

F1 — 1" - 2" 1/4- 20 UNC Threads 3 Holes

C-7350/S-8350 REDUCED PORT MODELS

Size	A Ball Orifice Inches mm	B Center to End Inches mm	C End to End Inches mm	D Center to Handle Inches mm	D* Center to Handle - LL Inches mm	E Radius of Handle Inches mm	E* Radius of Handle - LL Inches mm	F & F1 Mounting Ctr. - Ctr. Inches mm	Weight Lbs. kg.
3/4"	1/2 12.7	23/16 55.6	43/8 111.1	23/4 70.0	2 50.8	5 127	33/4 95.3	1 1/8 28.6	2.1 .95
1"	3/4 19.0	2 1/8 50.8	4 1/4 101.6	3 1/8 79.3	2 3/8 60.3	5 127	59/16 141.3	1 3/8 34.9	2.5 1.13
1 1/4"	1 25.4	2 5/8 66.7	5 1/4 133.4	3 3/8 85.7	3 1/16 77.7	8 1/4 210	6 1/16 154.0	1 1/8 28.6	5.3 2.40
1 1/2"	1 1/4 31.8	2 5/8 66.7	5 1/4 133.4	3 3/8 85.7	3 5/16 84.1	8 1/4 210	6 1/16 154.0	1 1/8 28.6	7.7 3.49
2"	1 1/2 38.1	3 1/8 79.4	6 1/4 158.8	3 3/8 85.7	3 7/8 98.4	11 280	8 1/4 209.6	1 1/2 38.1	10.75 4.88
2 1/2"	2 50.8	4 1/4 107.9	8 1/2 215.9	4 5/8 117.5	4 5/8 117.5	11 280	8 1/4 209.6	1 1/2 38.1	26.00 11.79

*with Latch-Lok option.

C-7380/S-8380 FULL PORT MODELS

Size	A Ball Orifice Inches mm	B Center to End Inches mm	C End to End Inches mm	D Center to Handle Inches mm	D* Center to Handle - LL Inches mm	E Radius of Handle Inches mm	E* Radius of Handle - LL Inches mm	F & F1 Mounting Ctr. - Ctr. Inches mm	Weight Lbs. kg.
1/4"	1/4 6.35	1 1/2 38.1	3 76.2	2 3/4 70.0	2 50.8	5 127	33/4 95.3	1 1/8 28.6	2.0 .90
3/8"	3/8 9.5	1 1/2 38.1	3 76.2	2 3/4 70.0	2 50.8	5 127	33/4 95.3	1 1/8 28.6	2.0 .90
1/2"	1/2 12.7	2 50.8	4 101.6	2 3/4 70.0	2 50.8	5 127	33/4 95.3	1 1/8 28.6	2.0 .90
3/4"	3/4 19.0	2 1/8 50.8	4 1/4 101.6	3 1/8 79.3	2 3/8 60.3	5 127	59/16 141.3	1 3/8 34.9	2.5 1.13
1"	1 25.4	2 1/4 57.0	4 1/2 114.3	3 1/8 79.3	3 1/16 77.7	8 1/4 210	6 1/16 154.0	1 1/8 28.6	5.0 2.27
1 1/4"	1 1/4 31.8	2 1/2 63.5	5 127.0	3 3/8 85.7	3 5/16 84.1	8 1/4 210	6 1/16 154.0	1 1/8 28.6	7.5 3.40
1 1/2"	1 1/2 38.1	2 5/8 66.7	5 1/4 133.4	3 3/8 85.7	3 7/8 98.4	11 280	8 1/4 209.6	1 1/2 38.1	10.75 4.88
2"	2 50.8	3 1/8 79.4	6 1/4 158.8	4 5/8 117.5	4 5/8 117.5	11 280	8 1/4 209.6	1 1/2 38.1	26.00 11.79

*with Latch-Lok option.

HOW TO ORDER:

1" - C - 7380 - 02 - LL - SS

Size:

1/4" - 2 1/2"

Material:

C - Carbon steel
S - Stainless Steel

Series:

73 - Carbon Roughneck
83 - Stainless Roughneck

Port Sizing:

50 - Reduced Port
80 - Full Port

Seat Material:

01 - Virgin PTFE
02 - Durafill
*03 - Nylon
*04 - Mineral-filled
*08 - Acetal

Handle Options:

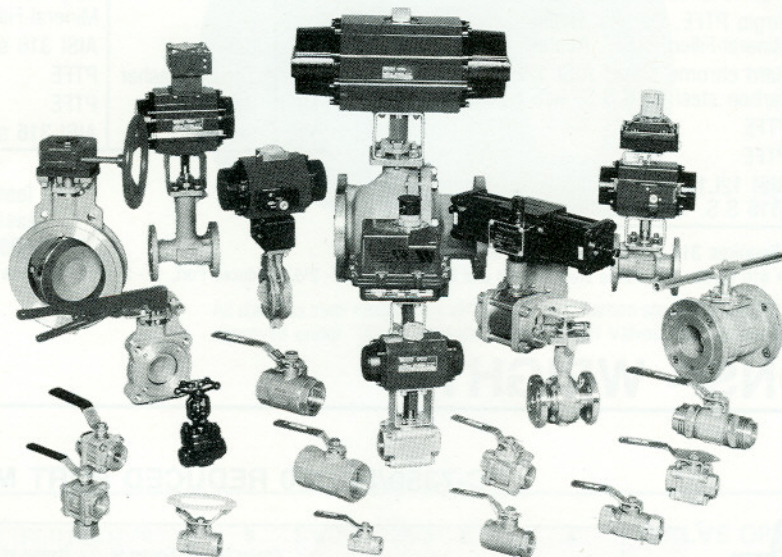
LL - Latch-lok Handle
(standard on S8350/S8380)
OL - Low Profile Oval Handle
OH - High Profile Oval Handle

Additional Options:

SS - 316 stainless steel trim
(WCB valves)

*Requires stainless steel ball and stem

Total Commitment to The Valve Industry



WATTS

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