



SC MFG. GROUP

DBA HIDALGO METALS ENTERPRISE LTD.

ONTARIO, CANADA
OVER TWENTY YEARS IN PRODUCTION

REFERENCE TABLES · 2026

VALVES

Ball, gate, globe, check and needle valves and Y strainers, in stainless steel and brass, with threaded, socket weld, butt weld and flanged connections. Every valve carries its design features, a dimension table with our part codes, and the full materials list.

Ball · gate · globe · check · needle
· Y strainer

200 to 6000 WOG; Class 150 and 300
flanged

Test standard API 598

Threaded, socket weld, butt weld and
flanged

ANSI B16.5, B16.10 and B16.34 where
applicable

Stainless steel and brass bodies

29

VALVE TYPES

1/8"-12"

SIZE RANGE

200-6000

WOG RATING

1,500+

TON PRESS

01

THE RANGE

STAINLESS & BRASS

Twenty-nine valve types, from a 1/4" one-piece ball valve to an 8" Class 150 flanged gate valve, with pressure ratings from 200 to 6000 WOG. Stainless steel bodies are investment cast to ASTM A351 Gr. CF8M with ASTM A276 Gr. 316 stems; seats and packing are PTFE or molecularly enhanced PTFE. Brass valves are made to NPT threads with PTFE seats and gland packing.

How the tables read. Dimension letters follow each valve's own drawing on the original data sheet, given in both inches and millimetres. Cv is the flow coefficient and weights are in pounds. Brass valve dimensions are in millimetres throughout. Sizes shown are approximate and may vary.

BALL VALVES

One, two and three piece bodies, full and reduced port, threaded, socket weld and butt weld, plus two three-way valves and four flanged ranges.

CHECK, GATE, GLOBE

Swing check, Y-check and flanged swing check; threaded and flanged gate and globe valves to ANSI B16.10 and B16.34.

STRAINERS, NEEDLE

300 WOG Y strainers with SS316 perforated screens, and 6000 PSI needle valves with T handle operation.

BRASS

Ball, solder ball, gate, swing check and check valves, and a garden hose adapter, rated PN16 to 600 WOG for service between -10 °C and 110 °C.

PART CODES

Every dimension table carries our part code for each size. Quote the code with the size when ordering. ME-PTFE is molecularly enhanced PTFE.

02 1 PC REDUCED PORT 800 WOG BALL VALVE, THREADED

1/4" TO 2" · 8 SIZES ·
13-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 800 PSI WOG (non-shock)

Investment cast body

Adjustable stem packing

Locking device

Steam rating: 125 PSI WSP

Bottom-loaded, blow-out-proof stem

Stainless steel handle with vinyl grip

DIMENSIONS

1/4" TO 2"

PART CODE	SIZE		A		B		D		L		H		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
13TBV1025	1/4"	8	0.2	5	2.36	60	0.67	17	1.54	39	1.22	31	1	0.17
13TBV10375	3/8"	10	0.28	7	2.76	70	0.83	21	1.73	44	1.38	35	2.5	0.24
13TBV105	1/2"	15	0.36	9.2	3.39	86	0.98	25	2.22	56	1.69	43	5.5	0.38
13TBV1075	3/4"	20	0.49	12.5	3.39	86	1.26	32	2.32	59	1.81	46	10	0.55
13TBV11	1"	25	0.63	16	4.09	104	1.5	38	2.8	71	1.97	50	15.5	0.99
13TBV1125	1 1/4"	32	0.79	20	4.09	104	1.93	49	3.11	79	2.13	54	20	1.63
13TBV115	1 1/2"	40	0.96	24.5	4.96	126	2.09	53	3.27	83	2.56	65	37	1.83
13TBV12	2"	50	1.26	32	4.96	126	2.56	65	3.94	100	2.83	72	60	2.76

MATERIALS LIST

13-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	8	Washer	SS304	2
2	Cap	ASTM A351 Gr. CF8M	1	9	Spring washer	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	10	Stem nut	SS304	1
4	Stem	ASTM A276 Gr. 316	1	11	Handle	SS304	1
5	Seat	PTFE	2	12	Handle sleeve	Vinyl grip	1
6	Thrust washer	PTFE	1	13	Locking plate	SS304	1
7	Gland packing	PTFE	1				

Sizes shown are approximate and may vary.

02 2 PC FULL PORT 1000 WOG BALL VALVE, THREADED

1/4" TO 4" · 11 SIZES ·
14-PART MATERIALS LIST

DESIGN FEATURES

Blow-out-proof stem design

Steam rating: 125 PSI WSP

Temperature range: -50°F to 450°F

Locking device

Threaded type: ANSI B1.20.1 (NPT)

DIMENSIONS

1/4" TO 4"

PART CODE	SIZE		D		E		L		L1		H		S		D1		H	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
13TBV2025	1/4"	8	0.43	11	0.61	15.5	2.28	57.8	1.13	28.8	2.25	57.2	0.21	5.45	4.06	103	—	16	0.57
13TBV20375	3/8"	10	0.49	12.5	0.61	15.5	2.28	57.8	1.13	28.8	2.25	57.2	0.21	5.45	4.06	103	—	16	0.53
13TBV205	1/2"	15	0.59	15	0.57	14.5	2.43	61.7	1.21	30.7	2.33	59.1	0.21	5.45	4.06	103	—	26	0.66
13TBV2075	3/4"	20	0.79	20	0.83	21	2.76	70.1	1.38	35	2.46	62.6	0.21	5.45	4.06	103	—	55	0.93
13TBV21	1"	25	0.98	25	0.77	19.5	3.2	81.3	1.58	40.2	2.78	70.7	0.24	6.2	5	127	—	110	1.53
13TBV2125	1 1/4"	32	1.26	32	1.09	27.9	3.78	96	1.86	47.2	3	76.2	0.24	6.2	5	127	—	180	2.23
13TBV215	1 1/2"	40	1.5	38	1.5	27.5	4.43	112.5	2.19	55.6	3.51	89.1	0.37	9.4	6.02	153	—	270	4.1
13TBV22	2"	50	2	50.8	1.08	26.7	4.96	126	2.46	62.4	3.87	98.2	0.37	9.4	7.6	193	—	500	6.27
13TBV225	2 1/2"	65	2.56	65	1.02	26	6.63	168.5	3.35	85	4.35	110.6	0.37	9.4	7.6	193	M8 × P1.25	800	13.77
13TBV23	3"	80	3.15	80	1.5	38	7.54	191.4	3.78	95.9	4.88	124	0.47	12	10.98	279	M10 × P1.5	1150	22.03
13TBV24	4"	100	3.94	100	1.89	48	8.52	216.5	4.26	108.3	6.63	168.5	0.47	16	13.19	335	M10 × P1.5	2120	37.89

MATERIALS LIST

14-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	8	Packing	PTFE	1
2	Cap	ASTM A351 Gr. CF8M	1	9	Gland	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	10	Handle	SS304	1
4	Stem	ASTM A276 Gr. 316	1	11	Spring washer	SS304	1
5	Seat	PTFE + 15%G/F	2	12	Handle nut	SS304	1
6	Gasket	PTFE	1	13	Handle sleeve	Vinyl grip	1
7	Thrust washer	PTFE	1	14	Locking plate*	SS304	1

Sizes shown are approximate and may vary.

02 **2 PC FULL PORT 2000/1500
WOG BALL VALVE, THREADED**1/4" TO 2" · 8 SIZES ·
14-PART MATERIALS LIST

DESIGN FEATURES

Working pressure: 1/4"~1" 2000 PSI, 1
1/4"~2" 1500 PSIME-PTFE seal kits, replacing PTFE, RPTFE
and FPA

Long cycle life

Locking device

Option: seal weld cap to body

Steam rating: 150 PSI WSP

Low deformation under load, low permeation

Adjustable stem packing

Design specification: ANSI B16.34 Class 900

Investment casting body & cap

Temperature rating: -45.5°C (-50°F) to
246°C (475°F)

Blow-out-proof stem

Test standard: API 598

DIMENSIONS

1/4" TO 2"

PART CODE	SIZE		D		L		H		D1		W1		W2		H	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
13TBVMM025	1/4"	8	0.43	11	2.34	59.5	2.24	4.06	103	0.5	12.7	1.12	28.5	M5 × P0.8	16	0.81	
13TBVMM0375	3/8"	10	0.49	12.5	2.34	59.5	2.24	4.06	103	0.5	12.7	1.12	28.5	M5 × P0.8	16	0.79	
13TBVMM05	1/2"	15	0.59	15	2.52	64.5	2.27	4.06	103	0.5	12.7	1.12	28.5	M5 × P0.8	26	0.93	
13TBVMM075	3/4"	20	0.79	20	3.03	77	2.7	5	127	0.88	22.4	1.38	35	M6 × P1.0	55	1.76	
13TBVMM1	1"	25	0.98	25	3.56	90.5	2.86	5	127	0.88	22.4	1.38	35	M6 × P1.0	110	2.73	
13TBVMM125	1 1/4"	32	1.26	32	3.92	99.5	3.45	6.14	156	1	25.4	1.5	38.1	M6 × P1.0	180	4.52	
13TBVMM15	1 1/2"	40	1.5	38	4.65	118	3.66	7.6	193	1	25.4	1.5	38.1	M6 × P1.0	270	5.68	
13TBVMM2	2"	50	2	50.8	5.37	136.5	4.11	7.6	193	1	25.4	1.5	38.1	M6 × P1.0	500	9.76	

MATERIALS LIST

14-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351Gr. CF8M	1	8	Packing	ME-PTFE*	1
2	Cap	ASTM A351Gr. CF8M	1	9	Gland	SS304	1
3	Ball	ASTM A351Gr. CF8M	1	10	Handle	SS304	1
4	Stem	ASTM A276Gr. 316	1	11	Spring washer	SS304	1
5	Seat	ME-PTFE*	2	12	Handle nut	SS304	1
6	Gasket	ME-PTFE*	1	13	Handle sleeve	Vinyl grip	1
7	Thrust washer	ME-PTFE*	1	14	Locking plate	SS304	1

ME-PTFE is molecularly enhanced PTFE. Sizes shown are approximate and may vary.

02 3 PC FULL PORT 1000 WOG BALL VALVE, THREADED

1/4" TO 4" · 11 SIZES ·
17-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 1000 PSI WOG (non-shock)

Steam rating: 150 PSI WSP

Investment cast body & cap

Blow-out-proof stem

Adjustable stem packing

Stainless steel handle with vinyl grip

Locking device

DIMENSIONS

1/4" TO 4"

PART CODE	SIZE		D		L		D1		H		W1		H	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
13TBV3025	1/4"	8	0.43	11	2.56	65	4.02	102	4.02	54	1.42	36	M5 × P0.8	6	1.06
13TBV30375	3/8"	10	0.49	12.5	2.56	65	4.02	102	4.02	54	1.42	36	M5 × P0.8	12	1.01
13TBV305	1/2"	15	0.59	15	2.8	71	4.02	102	4.02	55	1.42	36	M5 × P0.8	19	1.28
13TBV3075	3/4"	20	0.79	20	3.35	85	4.96	126	4.96	65	1.42	36	M5 × P0.8	37	2.02
13TBV31	1"	25	1	25.4	3.74	95	4.96	126	4.96	71	1.42	36	M5 × P0.8	64	2.62
13TBV3125	1 1/4"	32	1.26	32	4.37	111	5.91	150	5.91	89	1.97	50	M6 × P1.0	103	4.57
13TBV315	1 1/2"	40	1.57	40	4.76	121	5.91	150	5.91	94	1.97	50	M6 × P1.0	143	6.06
13TBV32	2"	50	2	50.8	5.51	140	7.32	186	7.32	100	1.97	50	M6 × P1.0	360	8.98
13TBV325	2 1/2"	65	2.56	65	6.81	173	10.71	272	10.71	121	2.76	70	M8 × P1.25	440	17.9
13TBV33	3"	80	3.15	80	7.56	192	10.71	272	10.71	134	4.02	102	M10 × P1.5	520	28.03
13TBV34	4"	100	3.94	100	8.86	225	13.19	335	13.19	172	4.02	102	M10 × P1.5	820	46.57

MATERIALS LIST

17-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	10	Handle	SS304	1
2	Cap	ASTM A351 Gr. CF8M	2	11	Handle nut	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	12	Spring washer	SS304	1
4	Stem	ASTM A276 Gr. 316	1	13	Bolts	ASTM A193 Gr. B8	4-6
5	Seat	PTFE+15% G/F	2	14	Bolt nuts	ASTM A194 Gr. 8	4-6
6	Packing	PTFE	1	15	Bolt washers	SS304	4-6
7	Gland	SS304	1	16	Handle sleeve	Vinylgrip	1
8	End seals	PTFE	2	17	Locking plate*	SS304	1
9	Thrust washer	PTFE	1				

Sizes shown are approximate and may vary.

02 3 PC FULL PORT 1000 WOG BALL VALVE, SOCKET WELD

1/4" TO 4" · 11 SIZES ·
17-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 1000 PSI WOG (non-shock)

Steam rating: 150 PSI WSP

Investment cast body & cap

Blow-out-proof stem

Adjustable stem packing

Stainless steel handle with vinyl grip

Locking device

DIMENSIONS

1/4" TO 4"

PART CODE	SIZE		A		D		D		D1		H		L		W1		H	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM					
13WBV3025	1/4"	8	0.39	10	0.43	11	0.56	14.1	4.02	2.13	2.56	65	1.42	M5 × P0.8		6		1.06	
13WBV30375	3/8"	10	0.39	10	0.49	12.5	0.69	17.5	4.02	2.13	2.56	65	1.42	M5 × P0.8		12		1.01	
13WBV305	1/2"	15	0.39	10	0.59	15	0.85	21.7	4.02	2.24	2.8	71	1.42	M5 × P0.8		19		1.28	
13WBV3075	3/4"	20	0.51	13	0.79	20	1.07	27.1	4.96	2.64	3.35	85	1.42	M5 × P0.8		37		2.02	
13WBV31	1"	25	0.51	13	1	25.4	1.33	33.8	5	2.76	3.74	95	1.42	M5 × P0.8		64		2.62	
13WBV3125	1 1/4"	32	0.51	13	1.26	32	1.67	42.5	6.14	3.59	4.41	111	1.97	M6 × P1.0		103		4.57	
13WBV315	1 1/2"	40	0.51	13	1.57	40	1.91	48.6	6.14	3.74	4.84	121	1.97	M6 × P1.0		143		6.06	
13WBV32	2"	50	0.63	16	2	50.8	2.41	61.1	7.52	4.02	5.55	141	1.97	M6 × P1.0		360		8.98	
13WBV325	2 1/2"	65	0.63	16	2.56	65	2.91	73.8	10.71	4.76	6.81	173	2.76	M8 × P1.25		440		17.9	
13WBV33	3"	80	0.63	16	3.15	80	3.54	89.8	10.98	5.08	7.56	192	4.02	M10 × P1.5		520		28.03	
13WBV34	4"	100	0.75	19	3.94	100	4.55	115.5	13.19	6.84	8.86	225	4.02	M10 × P1.5		820		46.57	

MATERIALS LIST

17-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	10	Handle	SS304	1
2	Cap	ASTM A351 Gr. CF8M	2	11	Handle nut	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	12	Spring washer	SS304	1
4	Stem	ASTM A276 Gr. 316	1	13	Bolts	ASTM A193 Gr. B8	4-6
5	Seat	PTFE+15%G/F	2	14	Bolt nuts	ASTM A194 Gr. 8	4-6
6	Packing	PTFE	1	15	Bolt washer	SS304	4-6
7	Gland	SS304	1	16	Handle sleeve	Vinylgrip	1
8	End seals	PTFE	2	17	Locking plate	SS304	1
9	Thrust washer	PTFE	1				

Sizes shown are approximate and may vary.

02 3 PC FULL PORT 1000 WOG BALL VALVE, BUTT WELD

1/4" TO 4" · 11 SIZES ·
16-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 1000 PSI WOG (non-shock)

Steam rating: 150 PSI WSP

Investment cast body & cap

Anti-static blow-out-proof stem

Adjustable stem packing

Stainless steel handle with vinyl grip

DIMENSIONS

1/4" TO 4"

SIZE		B		C		D		L		L1		H		D1		W1		H	CV FACTOR	WEIGHT (LB)
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
1/4"	8	—	—	—	—	—	—	2.56	65	—	—	4.02	4.02	102	1.42	36	M5 × P0.8	6	1.06	
3/8"	10	—	—	—	—	—	—	2.56	65	—	—	4.02	4.02	102	1.42	36	M5 × P0.8	12	1.01	
1/2"	15	0.67	17	0.55	14	0.24	6	2.8	71	0.35	9	4.02	4.02	102	1.42	36	M5 × P0.8	19	1.28	
3/4"	20	0.94	24	0.83	21	0.24	6	3.35	85	0.35	9	4.96	4.96	126	1.42	36	M5 × P0.8	37	2.02	
1"	25	1.18	30	1.06	27	0.28	7	3.74	95	0.41	10.5	4.96	4.96	126	1.42	36	M5 × P0.8	64	2.62	
1 1/4"	32	1.46	37	1.34	34	0.28	7	4.41	112	0.41	10.5	5.91	5.91	150	1.97	50	M6 × P1.0	103	4.57	
1 1/2"	40	1.73	44	1.61	41	0.31	8	4.84	123	0.47	12	5.91	5.91	150	1.97	50	M6 × P1.0	143	6.06	
2"	50	2.2	56	2.09	53	0.31	8	5.55	141	0.47	12	7.32	7.32	186	1.97	50	M6 × P1.0	360	8.98	
2 1/2"	65	3	76.1	2.84	72.1	0.31	8	6.81	173	0.47	12	10.71	10.71	272	2.76	70	M8 × P1.25	440	17.9	
3"	80	3.5	89	3.35	85	0.31	8	7.56	192	0.47	12	10.71	10.71	272	4.02	102	M10 × P1.5	520	28.03	
4"	100	4.25	108	4.09	104	0.31	8	8.86	225	0.47	12	13.19	13.19	335	4.02	102	M10 × P1.5	820	46.57	

MATERIALS LIST

16-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	9	Thrust washer	PTFE	1
2	Cap	ASTM A351 Gr. CF8M	2	10	Handle	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	11	Handle nut	SS304	1
4	Stem	ASTM A276Gr. 316	1	12	Spring washer	SS304	1
5	Seat	PTFE	2	13	Bolts	ASTM A193 Gr. B8	4-6
6	Packing	Grafoil	1	14	Bolt nuts	ASTM A194 Gr. 8	4-6
7	Gland	SS304	1	15	Bolt washers	SS304	4-6
8	Gasket	Grafoil	2	16	Handle sleeve	Vinyl grip	1

Sizes shown are approximate and may vary.

02 3 PC FULL PORT 1500/2000 WOG BALL VALVE, THREADED

1/2" TO 2" · 6 SIZES ·
16-PART MATERIALS LIST

DESIGN FEATURES

Working pressure: 1/2"~1" 2000 PSI, 1 1/4"~2" 1500 PSI	Steam rating: 150 PSI WSP	ME-PTFE seal kits, replacing PTFE, RPTFE and FPA
Temperature rating: -45.5°C (-50°F) to 246°C (475°F)	Long cycle life	Blow-out-proof stem
Anti-static device	Adjustable stem packing	Handle with locking device
ISO 5211 direct mounting of actuators	End connections: threaded end, socket weld end	ANSI B16.34 full compliance
Test standard: API 598	API 607 approval pending	

DIMENSIONS

1/2" TO 2"

SIZE	A		C		D		D		L		H1		H		S		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	IN	IN	IN	MM	MM	IN	MM	IN	MM	IN	MM	IN	IN		
1/2"	15	0.39	1.15	0.85	0.59	15	2.89	73.5	1.66	42.1	0.35	9	0.35	0.35	26	1.72		
3/4"	20	0.51	1.44	1.07	0.79	20	3.26	83	1.83	46.5	0.35	9	0.35	0.35	55	2.16		
1"	25	0.51	1.81	1.33	1	25.4	3.9	99	2.32	59	0.45	11.5	0.43	0.35	110	3.15		
1 1/4"	32	0.51	2.04	1.68	1.26	32	4.48	114	2.46	62.5	0.45	11.5	0.43	0.35	180	4.78		
1 1/2"	40	0.51	2.33	1.92	1.57	40	5.03	128	3.11	79	0.63	16	0.55	0.51	270	7.22		
2"	50	0.63	2.86	2.41	2	50.8	5.98	152	3.42	86.9	0.63	16	0.55	0.51	500	14.23		

MATERIALS LIST

16-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	9	Packing	ME-PTFE*	1
2	Cap	ASTM A351 Gr. CF8M	2	10	Ring	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	11	Compression washer	SS410	2
4	Seat	ME-PTFE*	2	12	Handle nut	SS304	2
5	Bolt	ASTM A193 Gr. B8	8	13	Stopper	SS304	1
6	Gasket	ME-PTFE*	2	14	Locking plate	SS304	1
7	Thrust washer	ME-PTFE*	1	15	Handle	SS304	1
8	Stem	ASTM A276 Gr. 316	1	16	Handle sleeve	Vinyl grip	1

ME-PTFE is molecularly enhanced PTFE. Sizes shown are approximate and may vary.

02 **3 PC REDUCED PORT 6000 WOG BALL VALVE, THREADED**1/8" TO 1" · 6 SIZES ·
14-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 6000 PSI WOG

Full material traceability, valves 100% tested

Bottom-loaded, blow-out-proof stem

Stainless steel handle with vinyl grip

DIMENSIONS

1/8" TO 1"

PART CODE	SIZE		A		B		C	D		E		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM		IN	MM	IN	MM		
13TBV6M0125	1/8"	6	3.33	84.6	0.39	10	1/8" NPT	1.06	26.8	1.5	38	—	0.99
13TBV6M025	1/4"	8	3.33	84.6	0.39	10	1/4" NPT	1.06	26.8	1.5	38	1	0.95
13TBV6M0375	3/8"	10	3.33	84.6	0.39	10	3/8" NPT	1.06	26.8	1.5	38	2.5	0.91
13TBV6M05	1/2"	15	3.33	84.6	0.39	10	1/2" NPT	1.06	26.8	1.5	38	5.5	0.88
13TBV6M075	3/4"	20	3.74	95	0.51	13	3/4" NPT	1.26	32	1.57	40	10	1.89
13TBV6M1	1"	25	4.57	116	0.75	19	1 " NPT	1.61	41	2.36	60	15.5	3.3

MATERIALS LIST

14-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A182 F316	1	8	Gasket	PTFE+50%S.S.	2
2	Cap	ASTM A182 F316	2	9	Thrust washer	PTFE+50%S.S.	1
3	Ball	ASTM A351 CF8M	1	10	Handle	SS304	1
4	Stem	ASTM A276 Gr. 316	1	11	Handle nut	SS304	1
5	Ball seats	PTFE+50%S.S.	2	12	Handle washer	SS304	1
6	Stem packing	PTFE+50%S.S.	1	13	Handle sleeve	Vinyl grip	1
7	Stem ring	SS304	1	14	Pin	SS304	1

Sizes shown are approximate and may vary.

02 3 WAY REDUCED PORT 1000 WOG BALL VALVE, THREADED, "L" PORT

1/4" TO 2" · 8 SIZES ·
17-PART MATERIALS LIST

DESIGN FEATURES

"L" port	Pressure rating: 1000 PSI WOG (non-shock)	Steam rating: 150 PSI WSP
Investment cast body & cap	Bottom-loaded, blow-out-proof stem	Adjustable stem packing
Stainless steel handle with vinyl grip	Locking device	

DIMENSIONS

1/4" TO 2"

PART CODE	SIZE		D		L		H		D		E		F		M		N	CV FACTOR	WEIGHT (LB.)
	IN	MM	IN	MM	IN	MM	IN	IN	IN	MM	IN	MM	IN	MM					
13TBVL025	1/4"	8	0.43	11	2.68	68	2.28	4.17	1.17	29.7	1.34	34	1.65	42	M5 × P0.8		6	1.32	
13TBVL0375	3/8"	10	0.43	11	2.68	68	2.28	4.17	1.17	29.7	1.34	34	1.65	42	M5 × P0.8		6	1.32	
13TBVL05	1/2"	15	0.5	12.7	2.95	75	2.4	5.43	1.17	29.7	1.48	37.5	1.65	42	M5 × P0.8		12	1.47	
13TBVL075	3/4"	20	0.63	16	3.39	86	2.91	5.43	1.39	35.4	1.69	43	1.97	50	M6 × P1.0		15.5	2.62	
13TBVL1	1"	25	0.79	20	4.06	103	3.19	6.38	1.39	35.4	2.03	51.5	1.97	50	M6 × P1.0		20	3.75	
13TBVL125	1 1/4"	32	0.98	25	4.53	115	3.46	6.38	1.39	35.4	2.26	57.5	1.97	50	M6 × P1.0		37	5.27	
13TBVL15	1 1/2"	40	1.26	32	4.92	125	4.09	8.66	1.95	49.5	2.46	62.5	2.76	70	M8 × P1.25		103	7.5	
13TBVL2	2"	50	1.5	38.1	5.75	146	4.33	8.66	1.95	49.5	2.87	73	2.76	70	M8 × P1.25		143	12.13	

MATERIALS LIST

17-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	10	Stem bolt	SS304	1
2	CAP2	ASTM A351 Gr. CF8M	2	11	Washer	SS304	1
3	Stem	ASTM A276 Gr. 316	1	12	Handle	SS304	1
4	Gland nut	SS304	1	13	Stem washer	SS304	1
5	Ball	ASTM A351 Gr. CF8M	1	14	Locating lock*	SS304	1
6	Seat	PTFE+15%G/F	4	15	Handle sleeve	Vinyl grip	1
7	Thrust washer	PTFE	1	16	Joint gasket	PTFE	1
8	Packings	PTFE	1	17	CAP1	ASTM A351 Gr. CF8M	1
9	JOINT GASKET1	PTFE	2				

Sizes shown are approximate and may vary.

02 3 WAY REDUCED PORT 1000 WOG BALL VALVE, THREADED, "T" PORT

1/4" TO 2" • 8 SIZES •
18-PART MATERIALS LIST

DESIGN FEATURES

"T" port	Pressure rating: 1000 PSI WOG (non-shock)	Steam rating: 150 PSI WSP
Investment cast body & cap	Bottom-loaded, blow-out-proof stem	Adjustable stem packing
Actuator mounting pad	Stainless steel handle with vinyl grip	Locking device

DIMENSIONS

1/4" TO 2"

PART CODE	SIZE		D		L		H		D		E		F		M		N	CV FACTOR	WEIGHT (LB.)
	IN	MM	IN	MM	IN	MM	IN	IN	IN	MM	IN	MM	IN	MM					
13TBVT025	1/4"	8	0.43	11	2.68	68	2.28	4.17	1.17	29.7	1.34	34	1.65	42	M5 × P0.8		6	1.32	
13TBVT0375	3/8"	10	0.43	11	2.68	68	2.28	4.17	1.17	29.7	1.34	34	1.65	42	M5 × P0.8		6	1.32	
13TBVT05	1/2"	15	0.5	12.7	2.95	75	2.4	5.43	1.17	29.7	1.48	37.5	1.65	42	M5 × P0.8		12	1.47	
13TBVT075	3/4"	20	0.63	16	3.39	86	2.91	5.43	1.39	35.4	1.69	43	1.97	50	M6 × P1.0		15.5	2.62	
13TBVT1	1"	25	0.79	20	4.06	103	3.19	6.38	1.39	35.4	2.03	51.5	1.97	50	M6 × P1.0		20	3.75	
13TBVT125	1 1/4"	32	0.98	25	4.53	115	3.46	6.38	1.39	35.4	2.26	57.5	1.97	50	M6 × P1.0		37	5.27	
13TBVT15	1 1/2"	40	1.26	32	4.92	125	4.09	8.66	1.95	49.5	2.46	62.5	2.76	70	M8 × P1.25		103	7.5	
13TBVT2	2"	50	1.5	38.1	5.75	146	4.33	8.66	1.95	49.5	2.87	73	2.76	70	M8 × P1.25		143	12.13	

MATERIALS LIST

18-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	10	Stem bolt	SS304	1
2	CAP2	ASTM A351 Gr. CF8M	2	11	Washer	SS304	1
3	Stem	ASTM A276 Gr. 316	1	12	Handle	SS304	1
4	Gland nut	SS304	1	13	Stem washer	SS304	1
5	Ball	ASTM A351 Gr. CF8M	1	14	Set screw	SS304	1
6	Seat	PTFE+15%G/F	4	15	Handle sleeve	Vinyl grip	1
7	Thrust washer	PTFE	1	16	Set bolt	SS304	1
8	Packings	PTFE	1	17	Joint gasket	PTFE	1
9	JOINT GASKET1	PTFE	2	18	CAP1	ASTM A351 Gr. CF8M	1

Sizes shown are approximate and may vary.

03 1 PC CLASS 150 REGULAR PORT BALL VALVE, FLANGED

1" TO 6" • 7 SIZES •
13-PART MATERIALS LIST

DESIGN FEATURES

1 PC 150# regular port	ISO 5211 actuator mounting pad	Blow-out-proof stem design
Anti-static device	Adjustable stem packing	Locking device
Body: ASTM A351 Gr. CF8M for TC-6000	ME-PTFE seal kits, replacing PTFE, RPTFE and FPA	Temperature rating: -45.5°C (-50°F) to 246°C (475°F)
Long cycle life	ANSI B16.5, B16.10 and B16.34 full compliance	Test standard: API 598

DIMENSIONS

1" TO 6"

PART CODE	SIZE		A	B	E	D	G	H	K	T	M	N	P	S	L	H1	H	CV FACTOR	WEIGHT (LB)	
	IN	MM	IN	IN	IN	IN	MM	IN	IN	IN	IN		IN	IN	IN	IN				IN
13FVAI1	1"	25	0.79	5	0.98	0.98	25	0.06	3.12	4.25	0.44	0.62	4	1.65	0.43	5.18	2.95	M5 × P0.8	52	5.07
13FVAI15	1 1/2"	40	1.26	6.5	1.24	1.57	40	0.06	3.88	5	0.56	0.62	4	1.97	0.55	6.42	3.81	M6 × P1.0	120	9.92
13FVAI2	2"	50	1.5	7	1.65	1.97	50	0.06	4.75	6	0.62	0.75	4	2.76	0.67	9.13	4.96	M8 × P1.25	170	15.66
13FVAI25	2 1/2"	65	1.97	7.5	1.65	2.64	67	0.06	5.5	7	0.69	0.75	4	2.76	0.67	9.13	5.32	M8 × P1.25	255	24
13FVAI3	3"	80	2.56	8	2.2	3.15	80	0.06	6	7.5	0.75	0.75	4	4.02	0.87	12.87	5.98	M10 × P1.5	430	31.31
13FVAI4	4"	100	3.15	9	2.2	3.94	100	0.06	7.5	9	0.94	0.75	8	4.02	0.87	12.87	6.3	M10 × P1.5	565	52
13FVAI6	6"	150	3.94	10.5	2.2	5.91	150	0.06	9.5	11	1	0.88	8	4.02	0.87	12.87	7.01	M10 × P1.5	600	78.06

MATERIALS LIST

13-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	8	Packing	ME-PTFE*	1
2	Cap	ASTM A351 Gr. CF8M	1	9	Gland	ASTM A351 Gr. CF8	1
3	Ball	ASTM A351 Gr. CF8M	1	10	Stopper	SS304	1
4	Stem	ASTM A276 Gr. 316	1	11	Snap ring	SS304	2
5	Seat	ME-PTFE*	2	12	Gland bolt	ASTM A193 Gr. B8	2
6	Gasket	ME-PTFE*	1	13	Handle	ASTM A536 Gr.65, 45& 12	1
7	Thrust washer	ME-PTFE*	1				

ME-PTFE is molecularly enhanced PTFE. Sizes shown are approximate and may vary.

03 2 PC CLASS 150 FULL PORT BALL VALVE, FLANGED

1/2" TO 8" • 12 SIZES •
15-PART MATERIALS LIST

DESIGN FEATURES

2 PC 150# full port

Face to face: ANSI B16.10

Flange dimension: ANSI B16.5

Wall thickness: ANSI B16.34

Test standard: API 598

Option: anti-static

DIMENSIONS

1/2" TO 8"

PART CODE	SIZE		A		B		F		G	H	K	T	M	N	D		H1	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	IN	IN	IN	IN	IN	IN		IN	IN	IN		
13FV205	1/2"	15	0.59	15	4.25	107.9	1.38	0.06	2.38	3.5	0.44	0.62	4	5.12	2.9		19	4.41	
13FV2075	3/4"	20	0.79	20	4.62	117.3	1.69	0.06	2.75	3.88	0.44	0.62	4	5.12	3		37	5.51	
13FV21	1"	25	0.98	25	5	127	2	0.06	3.12	4.25	0.44	0.62	4	6.46	3.7		54	6.62	
13FV2125	1 1/4"	32	1.26	32	5.5	139.7	2.5	0.06	3.5	4.62	0.5	0.62	4	6.46	3.9		103	9.5	
13FV215	1 1/2"	40	1.5	38	6.5	165.1	2.88	0.06	3.88	5	0.56	0.62	4	8.07	4.7		143	13.5	
13FV22	2"	50	1.97	50	7	177.8	3.62	0.06	4.75	6	0.62	0.75	4	8.07	5.2		360	18.74	
13FV225	2 1/2"	65	2.56	65	7.5	190.5	4.12	0.06	5.5	7	0.69	0.75	4	8.07	5.3		440	28.67	
13FV23	3"	80	3.15	80	8	203.2	5	0.06	6	7.5	0.75	0.75	4	12.83	6.1		520	39.69	
13FV24	4"	100	3.94	100	9	228.6	6.19	0.06	7.5	9	0.94	0.75	8	12.83	6.9		820	61.74	
13FV25	5"	125	4.92	125	14	355.6	7.31	0.06	8.5	10	0.94	0.88	8	42.2	9.4		1500	—	
13FV26	6"	150	5.91	150	15.5	393.7	8.5	0.06	9.5	11	1	0.88	8	42.2	9.8		1920	165.38	
13FV28	8"	200	7.87	200	18	457.2	10.62	0.06	11.75	13.5	1.12	0.88	8	42.52	11.7		3600	286.65	

MATERIALS LIST

15-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	9	Gland	ASTM A351 Gr. CF8	1
2	Cap	ASTM A351 Gr. CF8M	1	10	Stopper	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	11	Snap ring	SS304	2
4	Stem	ASTM A276 Gr. 316	1	12	Gland bolt	ASTM A193Gr. B8	2
5	Seat	PTFE	2	13	Stud bolt	ASTM A193 Gr. B8	4-12
6	Gasket	PTFE	1	14	Set nut	ASTM A194 Gr. 8M	4-12
7	Thrust washer	PTFE	1	15	Handle	ASTM A536 Gr. 65, 45 & 12	1
8	Packing	PTFE	1				

Sizes shown are approximate and may vary.

03 2 PC CLASS 300 FULL PORT BALL VALVE, FLANGED

1/2" TO 8" • 12 SIZES •
15-PART MATERIALS LIST

DESIGN FEATURES

2 PC 300# full port

Flange dimension: ANSI B16.5

Test standard: API 598

Face to face: ANSI B16.10

Wall thickness: ANSI B16.34

Option: anti-static

DIMENSIONS

1/2" TO 8"

PART CODE	SIZE		A		B		F		G	H	K	T	M	D		H1	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	IN	IN	IN	IN	IN	IN	N	IN	IN		
13FVB205	1/2"	15	0.59	15	5.5	139.7	1.38	0.06	2.62	3.75	0.56	0.62	4	5.12	2.9		19	5.58
13FVB2075	3/4"	20	0.79	20	6	152.4	1.69	0.06	3.25	4.62	0.62	0.75	4	5.12	3		37	7.72
13FVB21	1"	25	0.98	25	6.5	165.1	2	0.06	3.5	4.88	0.69	0.75	4	6.46	3.7		54	10.1
13FVB2125	1 1/4"	32	1.26	32	7	177.8	2.5	0.06	3.88	5.25	0.75	0.75	4	6.46	3.9		103	13.58
13FVB215	1 1/2"	40	1.5	38.1	7.5	190.5	2.88	0.06	4.5	6.12	0.81	0.88	4	8.07	4.7		143	20.95
13FVB22	2"	50	1.97	50	8.5	215.9	3.62	0.06	5	6.5	0.88	0.75	8	8.07	5.2		360	24.92
13FVB225	2 1/2"	65	2.56	65	9.5	241.3	4.12	0.06	5.88	7.5	1	0.88	8	8.07	5.3		440	41.45
13FVB23	3"	80	3.15	80	11.12	282.4	5	0.06	6.62	8.25	1.12	0.88	8	12.83	6.1		520	58.65
13FVB24	4"	100	3.94	100	12	304.8	6.19	0.06	7.88	10	1.25	0.88	8	12.83	6.9		820	91.29
13FVB25	5"	125	4.92	125	15	381	7.31	0.06	9.25	11	1.38	0.88	8	42.2	9.4		1500	—
13FVB26	6"	150	5.91	150	15.88	403.3	8.5	0.06	10.62	12.5	1.44	0.88	12	42.2	9.8		1920	202.86
13FVB28	8"	200	7.87	200	19.75	501.6	10.62	0.06	13	15	1.62	1	12	42.52	11.73		3600	384.33

MATERIALS LIST

15-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	9	Gland	ASTM A351 Gr. CF8	1
2	Cap	ASTM A351 Gr. CF8M	1	10	Stopper	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	11	Snap ring	SS304	2
4	Stem	ASTM A276 Gr. 316	1	12	Gland bolt	ASTM A193Gr. B8	2
5	Seat	PTFE+15%G/F	2	13	Stud bolt	ASTM A193 Gr. B8	4-12
6	Gasket	PTFE	1	14	Set nut	ASTM A194 Gr. 8M	4-12
7	Thrust washer	PTFE	1	15	Handle	ASTM A536 Gr. 65, 45 & 12	1
8	Packing	PTFE	1				

Sizes shown are approximate and may vary.

03 2 PC CLASS 150 FULL PORT “FS” BALL VALVE, FLANGED

1/2" TO 6" • 10 SIZES •
16-PART MATERIALS LIST

DESIGN FEATURES

2 PC 150# full port “FS”	Steam rating: 150 PSI WSP	ISO 5211 actuator mounting pad
Blow-out-proof stem design	Anti-static device	Adjustable stem packing
Locking device	Body: ASTM A351 Gr. CF8M (TC-5000) or ASTM A216 Gr. WCB (TC-5100)	ME-PTFE seal kits, replacing PTFE, RPTFE and FPA
Temperature rating: -45.5°C (-50°F) to 246°C (475°F)	Long cycle life	ANSI B16.5, B16.10 and B16.34 full compliance
Test standard: API 598	API 607 approval	

DIMENSIONS

1/2" TO 6"

SIZE	A		B		F		G		H		K		T		M		P		L		H1		H	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	MM	IN	IN	IN							
1/2"	15	0.59	4.25	1.38	0.06	2.38	3.5	0.44	0.62	4	1.65	42	5.18	2.91	M5 × P0.8	26	4.41								
3/4"	20	0.79	4.62	1.69	0.06	2.75	3.88	0.44	0.62	4	1.65	42	5.18	2.94	M5 × P0.8	55	5.51								
1"	25	0.98	5	2	0.06	3.12	4.25	0.44	0.62	4	1.97	50	6.42	3.44	M6 × P1.0	110	6.62								
1 1/4"	32	1.26	5.5	2.5	0.06	3.5	4.62	0.5	0.62	4	1.97	50	6.42	3.63	M6 × P1.0	180	9.92								
1 1/2"	40	1.5	6.5	2.88	0.06	3.88	5	0.56	0.62	4	2.76	70	9.13	4.76	M8 × P1.25	270	13.23								
2"	50	1.97	7	3.62	0.06	4.75	6	0.62	0.75	4	2.76	70	9.13	5.08	M8 × P1.25	500	18.74								
2 1/2"	65	2.56	7.5	4.12	0.06	5.5	7	0.69	0.75	4	2.76	70	9.13	5.55	M8 × P1.25	800	28.67								
3"	80	3.15	8	5	0.06	6	7.5	0.75	0.75	4	4.02	102	12.87	6.52	M10 × P1.5	1150	39.69								
4"	100	3.94	9	6.19	0.06	7.5	9	0.94	0.75	8	4.02	102	12.87	7.11	M10 × P1.5	2120	61.74								
6"	150	5.91	15.5	8.5	0.06	9.5	11	1	0.88	8	4.92	125	42.26	9.95	M12 × P1.75	5100	165.38								

MATERIALS LIST

16-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	9	Gland	ASTM A351 Gr. CF8	1
2	Cap	ASTM A351 Gr. CF8M	1	10	Stopper	SS304	1
3	Ball	ASTM A351 Gr. CF8M	1	11	Snap ring	SS304	2
4	Stem	ASTM A276Gr. 316	1	12	Gland bolt	ASTM A193 Gr. B8	2
5	Seat	ME-PTFE*	2	13	Stud bolt	ASTM A193 Gr. B8	4~10
6	Gasket	Spiral-wound gasket	1	14	Set nut	ASTM A194 Gr. 8	4~10
7	Thrust washer	ME-PTFE*	1	15	Handle	SS304	1
8	Packing	ME-PTFE*	1	16	Locking plate	SS304	1

ME-PTFE is molecularly enhanced PTFE. Sizes shown are approximate and may vary.

04 FULL PORT 200 WOG SWING CHECK VALVE, THREADED

1/4" TO 3" • 10 SIZES •
6-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 200 PSI WOG (non-shock)

Steam rating: 150 PSI WSP

Investment cast body & cap

Screwed cap

Swing type disc, full port

DIMENSIONS

1/4" TO 3"

PART CODE	SIZE		A		L		H		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM		
13TCV025	1/4"	8	0.39	10	2.56	65	1.77	45	—	0.73
13TCV0375	3/8"	10	0.47	12	2.56	65	1.77	45	4	0.68
13TCV05	1/2"	15	0.59	15	2.6	66	1.81	46	6.5	0.64
13TCV075	3/4"	20	0.79	20	3.19	81	2.13	54	15	1.08
13TCV1	1"	25	0.98	25	3.58	91	2.36	60	28	1.52
13TCV125	1 1/4"	32	1.26	32	4.19	106.5	2.83	72	45	2.32
13TCV15	1 1/2"	40	1.57	40	4.76	121	2.95	75	65	3.48
13TCV2	2"	50	1.97	50	5.59	142	3.23	82	120	5.16
13TCV25	2 1/2"	65	2.56	65	6.26	159	3.54	90	180	8.38
13TCV3	3"	80	3.15	80	7.48	190	4.09	104	280	13.01

MATERIALS LIST

6-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	Cap	ASTM A351 Gr. CF8M	1
3	Disc	ASTM A351 Gr. CF8M	1
4	Hinge pin	SS316	1
5	Gasket	PTFE	1
6	Plug	SS316	1

Sizes shown are approximate and may vary.

04 800 WOG Y-CHECK VALVE, THREADED, SOCKET WELD

1/4" TO 3" • 10 SIZES •
8-PART MATERIALS LIST

DESIGN FEATURES

Investment cast body & cap

Screwed-in cap

Connecting threads: ANSI B2.1 / BS21

DIMENSIONS

1/4" TO 3"

PART CODE	SIZE		A		B		C		CV FACTOR	WEIGHT (LB)	CRACKING PRESSURE
	IN	MM	IN	MM	IN	MM	IN	MM			
13TYC025	1/4"	8	2.56	65	1.81	46	0.75	19	2	0.62	0.435
13TYC0375	3/8"	10	2.56	65	1.81	46	0.75	19	3.8	0.54	0.435
13TYC05	1/2"	15	2.56	65	1.81	46	0.75	19	6.3	0.71	0.435
13TYC075	3/4"	20	3.15	80	2.28	58	0.91	23	14	0.95	0.464
13TYC1	1"	25	3.54	90	2.72	69	1.06	27	27	1.62	0.464
13TYC125	1 1/4"	32	4.13	105	2.95	75	1.26	32	43	2.15	0.508
13TYC15	1 1/2"	40	4.72	120	3.35	85	1.61	41	64	3.15	0.508
13TYC2	2"	50	5.51	140	3.86	98	1.97	50	116	4.85	0.58
13TYC25	2 1/2"	65	6.69	170	4.62	117	2.56	65	185	9.75	0.653
13TYC3	3"	80	7.87	200	5.35	136	3.15	80	270	14.35	—

MATERIALS LIST

8-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	Cap	ASTM A351 Gr. CF8M	1
3	Spring	SS304	1
4	Disc	SS316	1
5	Seat	Teflon	1
6	Washer	SS304	1
7	Bolt	SS304	1
8	Gasket packing	Teflon	1

Sizes shown are approximate and may vary.

04 CLASS 150 FLANGE END SWING CHECK VALVE

1/2" TO 12" • 13 SIZES
• 9-PART MATERIALS LIST

DESIGN FEATURES

Swing type	Body: ASTM A351 Gr. CF8M
Disc: ASTM A351 Gr. CF8M	End type: flange end
Face to face: ANSI B16.10	Flange dimensions: ANSI B16.5 Class 150
Wall thickness: ANSI B16.34	

DIMENSIONS

1/2" TO 12"

PART CODE	SIZE		L		H1		K		H		F		T		M		N	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
13FCV05	1/2"	15	4.25	108	2.87	73	3.5	89	2.38	1.38	35	0.44	11.1	0.62	4		9.5	5.05	
13FCV075	3/4"	20	4.61	117	2.95	75	3.86	98	2.76	1.69	43	0.44	11.1	0.62	4		16	6.24	
13FCV1	1	25	5	127	3.15	80	4.25	108	3.13	2.01	51	0.44	11.4	0.62	4		27	8.47	
13FCV15	1 1/2"	40	6.5	165	4.37	111	5	127	3.88	2.87	73	0.56	14.3	0.62	4		70	10.23	
13FCV2	2"	50	7.99	203	4.84	123	5.98	152	4.74	3.62	92	0.63	15.9	0.75	4		120	13.36	
13FCV25	2 1/2"	65	8.5	216	5.28	134	7.01	178	5.49	4.13	105	0.69	17.5	0.75	4		170	27.1	
13FCV3	3"	80	9.49	241	5.83	148	7.48	190	6	5	127	0.75	19.1	0.75	4		250	48.36	
13FCV4	4"	100	11.5	292	6.22	158	9.02	229	7.5	6.18	157	0.94	23.9	0.75	8		470	72.81	
13FCV5	5"	125	12.99	330	7.56	192	10	254	8.5	7.32	186	0.94	23.9	0.88	8		—	92.61	
13FCV6	6"	150	14.02	356	8.78	223	10.98	279	9.51	8.5	216	1	25.4	0.88	8		1100	136.71	
13FCV8	8"	200	19.49	495	11.14	283	13.5	343	11.75	10.63	270	1.13	28.6	0.88	8		2000	233.73	
13FCV10	10"	250	24.49	622	12.52	318	15.98	406	14.25	12.76	324	1.19	30.2	1	12		—	359.42	
13FCV12	12"	300	27.48	698	14.06	357	19.02	483	17.01	15	381	1.25	31.8	1	12		—	551.25	

MATERIALS LIST

9-PART MATERIALS LIST

NO.	PART NAME	MATERIAL (SS316)	QTY
1	Body	ASTM A351 Gr.CF8M	1
2	Cover	ASTM A351 Gr.CF8M	1
3	Disc	ASTM A351 Gr.CF8M	1
4	Disc nut	ASTM A194 Gr. 8	1
5	Cover bolt	ASTM A193 Gr. B8	4-12
6	Cover nut	ASTM A194 Gr. 8	4-12
7	Arm	ASTM A351Gr.CF8M	1
8	Gasket	PTFE	1
9	Plug	SS316	1

Sizes shown are approximate and may vary.

05 FULL PORT 200 WOG GATE VALVE, THREADED

1/2" TO 2" • 6 SIZES •
14-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 200 PSI WOG (non-shock)

Investment cast body & bonnet

Non-rising stem

Solid wedge disc, full port

DIMENSIONS

1/2" TO 2"

PART CODE	SIZE		D		L		H		D		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
13TGAV05	1/2"	15	0.63	16.1	2.24	57	3.88	98.6	2.76	70	15	0.93
13TGAV075	3/4"	20	0.8	20.3	2.38	60.5	4.06	103	2.76	70	37	1.24
13TGAV1	1"	25	1.02	26	2.64	67	4.53	115	3.01	76.5	72	1.61
13TGAV125	1 1/4"	32	1.25	31.8	2.99	76	5.04	128	3.01	76.5	110	2.14
13TGAV15	1 1/2"	40	1.57	40	3.43	87	6.81	173	4.07	103.5	165	2.96
13TGAV2	2"	50	1.98	50.3	3.74	95	7.44	121	4.76	121	320	4.26

MATERIALS LIST

14-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1	8	Stem packing	PTFE	1
2	Bonnet	ASTM A351 Gr. CF8M	1	9	Gland	SS304	1
3	Stem	ASTM A276 Gr. 316	1	10	Gland nut	SS316	1
4	Disc	ASTM A351 Gr. CF8M	1	11	Handlewheel	SS400	1
5	Gasket	PTFE	1	12	Name plate	Aluminum	1
6	Stop ring	SS304	1	13	Handlewheel washer	SS304	1
7	Stem holder	SS316	1	14	Handlewheel nut	SS304	1

Sizes shown are approximate and may vary.

05 CLASS 150 FLANGE END GATE VALVE

1/2" TO 12" • 13 SIZES
• 11-PART MATERIALS LIST

DESIGN FEATURES

Rising stem	Body: ASTM A351 Gr. CF8M	Disc: ASTM A351 Gr. CF8M
Stem: SS16	End type: flange end	Face to face: ANSI B16.10
Flange dimensions: ANSI B16.5 150 lbs	Wall thickness: ANSI B16.34	

DIMENSIONS

1/2" TO 12"

PART CODE	SIZE		L		H1		K		H		F		T		M		N	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM					
13FGAV05	1/2"	15	4.25	108	8.03	204	3.94	100	2.38	1.38	35	0.44	11.1	0.62	4		19	7.28	
13FGAV075	3/4"	20	4.61	117	8.23	209	3.94	100	2.76	1.69	43	0.44	11.1	0.62	4		36	9.7	
13FGAV1	1	25	5	127	9.02	229	3.94	100	3.13	2.01	51	0.44	11.1	0.62	4		57	11.31	
13FGAV15	1 1/2"	40	6.5	165	11.14	283	5.51	140	3.88	2.87	73	0.56	14.3	0.62	4		140	17.09	
13FGAV2	2"	50	7.01	178	13.07	332	6.3	160	4.74	3.62	92	0.63	15.9	0.75	4		240	25.09	
13FGAV25	2 1/2"	65	7.48	190	15.63	397	7.09	180	5.49	4.13	105	0.69	17.5	0.75	4		360	46.31	
13FGAV3	3"	80	7.99	203	17.28	439	7.87	200	6	5	127	0.75	19.1	0.75	4		580	56.56	
13FGAV4	4"	100	9.02	229	20.39	518	8.82	224	7.5	6.18	157	0.94	23.9	0.75	8		950	82.42	
13FGAV5	5"	125	10	254	24.45	621	9.84	250	8.52	7.32	186	0.94	23.9	0.88	8		NA	110.25	
13FGAV6	6"	150	10.51	267	28.11	714	11.02	280	9.51	8.5	216	1	25.4	0.88	8		2400	119.07	
13FGAV8	8"	200	11.5	292	35.98	914	11.81	300	11.75	10.63	270	1.13	28.6	0.88	8		4200	198.45	
13FGAV10	10"	250	12.99	330	43.62	1108	13.98	355	14.25	12.76	324	1.19	30.2	1	12		6800	343.98	
13FGAV12	12"	300	14.02	356	61.14	1553	23.62	600	17.01	15	381	1.25	31.8	1	12		9900	534.71	

MATERIALS LIST

11-PART MATERIALS LIST

NO.	PART NAME	MATERIAL (SS316)	QTY	NO.	PART NAME	MATERIAL (SS316)	QTY
1	Body	ASTM A351 Gr. CF8M	1	7	Hand wheel	ASTM A536 Gr. B65, 45 & 12	1
2	Bonnet	ASTM A351Gr.CF8M	1	8	Gasket	PTFE (OR NON ASBESTOS)	1
3	Stem	ASTM A276Gr. 316	1	9	Bonnet bolt/nut	ASTM A193 Gr. B8/ASTM A194 Gr. 8	4-16
4	Disc	ASTM A351 Gr. CF8M	1	10	Gland bolt/nut	ASTM A193 Gr. B8/ASTM A194 Gr. 8	2
5	Gland	ASTM A351 Gr. CF8	1	11	Yoke sleeve	Bronze (or ductileni-resist)	1
6	Gland packing	PTFE	1				

Sizes shown are approximate and may vary.

06 FULL PORT 200 WOG GLOBE VALVE, THREADED

1/4" TO 2" • 8 SIZES •
10-PART MATERIALS LIST

DESIGN FEATURES

Pressure rating: 200 PSI WOG (non-shock)

Screwed bonnet

Investment cast body & bonnet

Rising stem and wheel, full port

DIMENSIONS

1/4" TO 2"

PART CODE	SIZE		P		L		H (OPEN)		D		CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM		
13TGLV025	1/4"	8	0.39	10	2.05	52	4.02	102	2.36	60	1	1.04
13TGLV0375	3/8"	10	0.47	12	2.05	52	4.02	102	2.36	60	1.5	1.01
13TGLV05	1/2"	15	0.47	12	2.6	66	3.74	95	2.76	70	2.5	1.46
13TGLV075	3/4"	20	0.59	15	2.7	68.5	3.9	99	2.76	70	5.6	1.46
13TGLV1	1"	25	0.79	20	3.08	78.3	4.02	102	3.01	76.5	10.5	2.1
13TGLV125	1 1/4"	32	0.98	25	3.39	86	4.96	126	4.07	103.5	17	3.11
13TGLV15	1 1/2"	40	1.3	33	3.86	98	5.35	136	4.07	103.5	25	4.83
13TGLV2	2"	50	1.57	40	4.35	110.5	6.14	156	4.76	121	46	6.09

MATERIALS LIST

10-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY	NO.	PART NAME	MATERIAL	QTY
1	Nut	SS304	1	6	Gland packing	PTFE	1
2	Handwheel	SS400	1	7	Bonnet	ASTM A351 Gr. CF8M	1
3	Stem	ASTM A276 Gr. 316	1	8	Gasket	PTFE	1
4	Gland nut	ASTM A351 Gr. CF8M	1	9	Body	ASTM A351 Gr. CF8M	1
5	Gland	ASTM A351 Gr. CF8M	1	10	Disc	ASTM A351 Gr. CF8M	1

Sizes shown are approximate and may vary.

06 CLASS 150 FLANGE END GLOBE VALVE

1/2" TO 10" • 12 SIZES
• 11-PART MATERIALS LIST

DESIGN FEATURES

Rising stem	O.S. & yoke, flexible wedge	Body: ASTM A351 Gr. CF8M
Disc: ASTM A351 Gr. CF8M	Stem: SS316	Packing: PTFE
End type: flange end	Face to face: ANSI B16.10	Flange dimensions: ANSI B16.5 150 lbs
Wall thickness: ANSI B16.34		

DIMENSIONS

1/2" TO 10"

PART CODE	SIZE		L		H1		K		H		F		T		M		N	CV FACTOR	WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM			
13FGLV05	1/2"	15	4.25	108	6.77	172	3.94	100	2.38	1.38	35	0.44	11.1	0.62	4		5		7.67
13FGLV075	3/4"	20	4.61	117	6.77	172	3.94	100	2.76	1.69	43	0.44	11.1	0.62	4		8.5		9.31
13FGLV1	1	25	5	127	6.89	175	3.94	100	3.13	2.01	51	0.44	11.1	0.62	4		11		11.66
13FGLV15	1 1/2"	40	6.5	165	8.15	207	5.51	140	3.88	2.87	73	0.56	14.3	0.62	4		32		18.43
13FGLV2	2"	50	7.99	203	9.13	232	6.3	160	4.74	3.62	92	0.63	15.9	0.75	4		48		28.44
13FGLV25	2 1/2"	65	8.5	216	10.75	273	7.09	180	5.49	4.13	105	0.69	17.5	0.75	4		80		44.1
13FGLV3	3"	80	9.49	241	11.93	303	7.87	200	6	5	127	0.75	19.1	0.75	4		110		56.91
13FGLV4	4"	100	9.02	229	13.39	340	8.82	224	7.5	6.18	157	0.94	23.9	0.75	8		190		87.16
13FGLV5	5"	125	14.02	356	15.16	385	9.84	250	8.5	7.32	186	0.94	23.9	0.88	8		—		117.97
13FGLV6	6"	150	15.98	406	17.64	448	11.81	300	9.51	8.5	216	1	25.4	0.88	8		450		154.35
13FGLV8	8"	200	19.49	495	21.46	545	13.98	355	11.75	10.63	270	1.13	28.6	0.88	8		800		294.37
13FGLV10	10"	250	24.49	622	26.22	666	17.72	450	14.25	12.76	324	1.19	30.2	1	12		—		433.28

MATERIALS LIST

11-PART MATERIALS LIST

NO.	PART NAME	MATERIAL (SS316)	QTY	NO.	PART NAME	MATERIAL (SS316)	QTY
1	Body	ASTM A351 Gr. CF8M	1	7	Hand wheel	ASTM A536 Gr. B65, 45 & 12	1
2	Bonnet	ASTM A351 Gr. CF8M	1	8	Gasket	PTFE (OR NON ASBESTOS)	1
3	Stem	ASTM A276 Gr. 316	1	9	Bonnet bolt/nut	ASTM A193 Gr. B8/ASTM A194 Gr. 8	4-16
4	Disc	ASTM A351 Gr. CF8M	1	10	Gland bolt/nut	ASTM A193 Gr. B8/ASTM A194 Gr. 8	2
5	Gland	ASTM A351 Gr. CF8	1	11	Yoke sleeve	Bronze (or ductileni-resist)	1
6	Gland packing	PTFE	1				

Sizes shown are approximate and may vary.

07 300 WOG Y STRAINER VALVE, THREADED, SOCKET WELD

1/4" TO 3" • 10 SIZES •
4-PART MATERIALS LIST

DESIGN FEATURES

300 WOG

Investment cast body & cap

SS316 screen, 4 mm thick perforated, 1.0 mm hole with 2.0 mm staggering

Screwed-in cap

Connecting threads: ANSI B2.1 / BS21

DIMENSIONS

1/4" TO 3"

PART CODE	SIZE		D		B		H		L		WEIGHT	
	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	KG	LB
13TYS025	1/4"	8	0.31	8	1.02	26	2.01	51	2.56	65	0.26	0.57
13TYS0375	3/8"	10	0.39	10	1.02	26	2.01	51	2.56	65	0.23	0.5
13TYS05	1/2"	15	0.59	15	1.02	26	2.01	51	2.56	65	0.3	0.66
13TYS075	3/4"	20	0.79	20	1.3	33	2.36	60	3.15	80	0.4	0.88
13TYS1	1"	25	0.98	25	1.61	41	2.83	72	3.54	90	0.7	1.54
13TYS125	1 1/4"	32	1.26	32	1.93	49	3.03	77	4.13	105	0.9	1.99
13TYS15	1 1/2"	40	1.57	40	2.2	56	3.43	87	4.72	120	1.3	2.87
13TYS2	2"	50	1.97	50	2.72	69	4.06	103	5.51	140	2.1	4.63
13TYS25	2 1/2"	65	2.56	65	3.43	87	4.72	120	6.69	170	4.3	9.47
13TYS3	3"	80	3.15	80	4.02	102	5.51	140	7.87	200	6.3	13.88

MATERIALS LIST

4-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	Screen	SS316 SCREEN	1
3	Gasket	Teflon	1
4	Cap	ASTM A351 Gr. CF8M	1

Sizes shown are approximate and may vary.

07 6000 PSI STAINLESS STEEL NEEDLE VALVE

1/8" TO 1" • 6 SIZES •
8-PART MATERIALS LIST

DESIGN FEATURES

Investment casting

Screwed-in bonnet

Rising stem

T handle operation

Connecting threads: ANSI B2.1, BS21 and DIN

Working pressure: 6000 PSI

DIMENSIONS

1/8" TO 1"

PART CODE	SIZE		A		B		C		WEIGHT (LB)
	IN	MM	IN	MM	IN	MM	IN	MM	
13TNV0125	1/8"	6	2.95	75	1.15	29	2.28	58	0.65
13TNV025	1/4"	8	2.95	75	1.15	29	2.28	58	0.61
13TNV0375	3/8"	10	2.95	75	1.15	29	2.28	58	0.73
13TNV05	1/2"	15	3.45	87	1.28	32.5	2.56	65	1.22
13TNV075	3/4"	20	3.55	90	1.38	35	2.76	70	1.44
13TNV1	1"	25	4.05	103	1.58	40	3.15	80	3.09

MATERIALS LIST

8-PART MATERIALS LIST

NO.	PART NAME	SPECIFICATION	QTY
1	Set screw	SS304	1
2	Handle	SS410	1
3	Stem	SS316	1
4	Gland nut	SS304	1
5	Gland	SS304	1
6	Packing	Teflon	1
7	Bonnet	ASTM A351 Gr. CF8M	1
8	Body	ASTM A351 Gr. CF8M	1

Sizes shown are approximate and may vary.

08 **BRASS BALL VALVE**1/4" TO 4" · 11 SIZES ·
10-PART MATERIALS LIST

DESIGN FEATURES

Brass body with PTFE seat and gland packing

NPT threaded ends

Rated to 600 WOG

Temperature range -10 °C to 110 °C

DIMENSIONS

1/4" TO 4"

SIZE	H	W	F	L	D	T	PN
1/4"	44	80	10	42.3	9	NPT 1/4	600 WOG
3/8"	45	80	10	42.3	10	NPT 3/8	600 WOG
1/2"	47.5	90	11.5	49	14.5	NPT 1/2	600 WOG
3/4"	54	105	13.5	58.5	19	NPT 3/4	600 WOG
1"	58	105	15	67	24	NPT 1	600 WOG
1 1/4"	69	120	16.5	78	30	NPT 1 1/4	600 WOG
1 1/2"	78.5	135	18	91	37	NPT 1 1/2	600 WOG
2"	91.5	160	20	105.5	47	NPT 2	600 WOG
2 1/2"	106.5	220	30	143.5	60	NPT 2 1/2	400 WOG
3"	126.5	265	31.8	161.5	75	NPT 3	400 WOG
4"	151	265	35.8	192.5	94	NPT 4	400 WOG

MATERIALS LIST

10-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	Brass	6	Gland packing	PTFE
2	Body cap	Brass	7	Gland	Brass
3	Ball	Brass	8	Lever	Coated steel
4	Ball seats	PTFE	9	Screw	A107
5	Stem	Brass	10	Washer	A107

Dimensions in millimetres. T is the connection thread; PN is the pressure rating. Temperature range -10 °C to 110 °C.

08 BRASS SOLDER BALL VALVE

1/2" TO 2" · 6 SIZES ·
10-PART MATERIALS LIST

DESIGN FEATURES

Brass body with PTFE seat and gland packing

Solder socket ends

Rated to 600 WOG

Temperature range -10 °C to 110 °C

DIMENSIONS

1/2" TO 2"

SIZE	H	W	F	L	D	T	PN
1/2"	47.5	80	14	57.5	14.5	16	600 WOG
3/4"	54	105	18	67	19	22	600 WOG
1"	58	105	20	76.4	24	28	600 WOG
1 1/4"	69	120	27	100.5	30	35	600 WOG
1 1/2"	78.5	135	28	112	38	41	600 WOG
2"	91.5	160	32	132	48	54	600 WOG

MATERIALS LIST

10-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	Brass	6	Gland packing	PTFE
2	Body cap	Brass	7	Gland	Brass
3	Ball	Brass	8	Lever	Coated steel
4	Ball seats	PTFE	9	Screw	A107
5	Stem	Brass	10	Washer	A107

Dimensions in millimetres. T is the connection thread (solder socket diameter); PN is the pressure rating. Temperature range -10 °C to 110 °C.

08 **BRASS GATE VALVE**1/2" TO 4" · 9 SIZES ·
11-PART MATERIALS LIST

DESIGN FEATURES

Brass body with PTFE gland packing

NPT threaded ends

Rated PN20

Temperature range -10 °C to 110 °C

DIMENSIONS

1/2" TO 4"

SIZE	H	W	F	L	D	T	PN
1/2"	72	53	11.5	40	12.5	NPT 1/2	PN20
3/4"	82.5	57.5	13	45	19	NPT 3/4	PN20
1"	95.5	57.5	15	51	24	NPT 1	PN20
1 1/4"	111	72	16	57	30	NPT 1 1/4	PN20
1 1/2"	120	78	17	60	37	NPT 1 1/2	PN20
2"	98	88.5	18	72	47	NPT 2	PN20
2 1/2"	175.5	98	21	78	59	NPT 2 1/2	PN20
3"	203	108	24.5	90	70	NPT 3	PN20
4"	240	126	28.5	102	85	NPT 4	PN20

MATERIALS LIST

11-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	Brass	7	Gland	Brass
2	Bonnet	Brass	8	Packing nut	Brass
3	Disc	Brass	9	Nameplate	Aluminium
4	Stem	Brass	10	Nut	A107
5	Lock nut	Brass	11	Handwheel	Coated steel
6	Gland packing	PTFE			

Dimensions in millimetres. T is the connection thread; PN is the pressure rating. Temperature range -10 °C to 110 °C.

08 BRASS SWING CHECK VALVE

1/2" TO 2" · 6 SIZES ·
4-PART MATERIALS LIST

DESIGN FEATURES

Brass body

Swing type disc

NPT threaded ends

Rated PN16

DIMENSIONS

1/2" TO 2"

SIZE	H	L	D	T	PN
1/2"	28	46	11.5	NPT 1/2	PN16
3/4"	35	54	16.5	NPT 3/4	PN16
1"	37.5	64	22	NPT 1	PN16
1 1/4"	45.5	75	29	NPT 1 1/4	PN16
1 1/2"	49.5	85	34	NPT 1 1/2	PN16
2"	59	104	45	NPT 2	PN16

MATERIALS LIST

4-PART MATERIALS LIST

NO.	PART NAME	MATERIAL
1	Body	Brass
2	Cap	Brass
3	Disc	Brass
4	Gasket	NBR

Dimensions in millimetres. T is the connection thread; PN is the pressure rating. Temperature range -10 °C to 110 °C.

08 **BRASS CHECK VALVE**3/8" TO 4" · 10 SIZES ·
6-PART MATERIALS LIST

DESIGN FEATURES

Brass body

NPT threaded ends

Working pressure given in kg/cm² and psi**DIMENSIONS**

3/8" TO 4"

SIZE	A (MM)	B (MM)	C	WORKING PRESSURE KG/CM ²	WORKING PRESSURE PSI
3/8"	45	29.5	NPT 3/8	12	170
1/2"	47	33	NPT 1/2	12	170
3/4"	51	41.5	NPT 3/4	12	170
1"	56.5	47.5	NPT 1	12	170
1 1/4"	64	60	NPT 1 1/4	10	145
1 1/2"	69	68	NPT 1 1/2	10	145
2"	77	81	NPT 2	10	145
2 1/2"	88	104	NPT 2 1/2	8	110
3"	95.5	111	NPT 3	8	110
4"	103	141	NPT 4	8	110

MATERIALS LIST

6-PART MATERIALS LIST

NO.	PART CODE	PART NAME	QTY	MATERIAL
1	DS4102-08-001-A	Body	1	Brass
2	DS4102-08-042-A	Plate	1	Nylon
3	DS4102-08-007-A	Seal	1	NBR
4	DS4102-08-032-A	Plate	1	Nylon
5	DS4102-08-002-A	Bonnet	1	Brass
6	DS4102-10-072-A	Spring	1	Stainless steel

Dimensions A and B in millimetres. C is the connection thread.

08 GARDEN HOSE TO MALE PIPE, 45° ANGLE

1/2" TO 3/4" · 2 SIZES
· 10-PART MATERIALS LIST

DESIGN FEATURES

Brass body
45° angle body

Garden hose thread to male NPT
Rated PN16

DIMENSIONS

1/2" TO 3/4"

SIZE	H	W	L	T	PN
1/2"	49.5	53	26	NPT 1/2	PN16
3/4"	49.5	57	26	NPT 3/4	PN16

MATERIALS LIST

10-PART MATERIALS LIST

NO.	PART NAME	MATERIAL	NO.	PART NAME	MATERIAL
1	Body	Brass	6	Gasket	A107
2	Packing nut	Brass	7	Gland packing	PTFE
3	Stem	Brass	8	Handwheel	A126 CLASS8
4	Gasket	NBR	9	Nameplate	Aluminium
5	Screw	Brass	10	Nut	Brass

Dimensions in millimetres. T is the connection thread; PN is the pressure rating. Temperature range -10 °C to 110 °C.