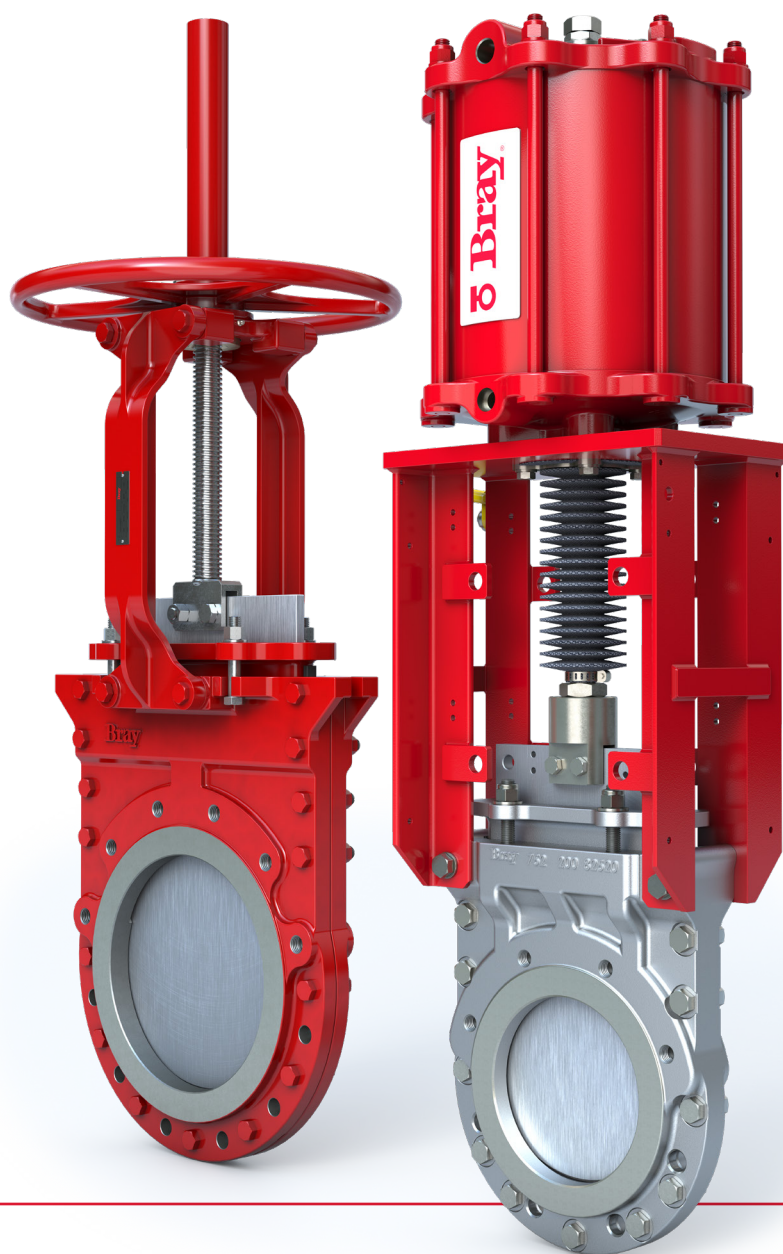

SERIES 752/752HP

BIDIRECTIONAL KNIFE GATE VALVES

TECHNICAL SALES MANUAL



Bray®

BRAY.COM

THE HIGH PERFORMANCE COMPANY

OVERVIEW	.3
TECHNICAL DATA	.4
FEATURES & BENEFITS	.5
ACCESSORIES	.7
VALVE SELECTION.	.8
PARTS CALLOUT — SPECIFICATIONS.	.9
PARTS CALLOUT — SERIES 752	.10
PARTS CALLOUT — SERIES 752HP	.11
DIMENSIONS & WEIGHTS — SERIES 752 (inch & lb).	.12
DIMENSIONS & WEIGHTS — SERIES 752HP (inch & lb)	.13
DIMENSIONS & WEIGHTS — SERIES 752 (mm & kg).	.14
DIMENSIONS & WEIGHTS — SERIES 752HP (mm & kg)	.15
STEM AND MOUNTING DETAILS (inch)	.16
STEM AND MOUNTING DETAILS (mm)	.17
FLANGE TO VALVE BOLTING DATA — SERIES 752	.18
FLANGE TO VALVE BOLTING DATA — SERIES 752HP.	.19

OVERVIEW

OVERVIEW

The Bray Series 752/752HP knife gate valve features a robust steel reinforced perimeter seat which provides bidirectional zero leakage shutoff. The replaceable perimeter seat is mechanically retained between both halves of the two-piece bolted body for unsurpassed performance in the most demanding applications.

Available in two configurations:

SERIES 752

- > 232 psi | 16 bar.
- > Face-to-face compliance with MSS SP-81.
- > Two-piece cast yoke.

SERIES 752HP

- > 290 psi | 20 bar.
- > Fully compliant to MSS-SP-135.
- > Heavy-duty steel tower.
- > Stem bellows as standard.
- > Low-friction thermoplastic gate guides.

INDUSTRIES

- > Chemical & Petrochemical
- > Food & Beverage
- > General Industry
- > Mining & Metals
- > Oil Sands
- > Pharma & Biotech
- > Power Generation
- > Pulp & Paper
- > Water & Wastewater

MEDIA

- > Abrasive Slurries
- > Corrosive Slurries
- > Process & Raw Water
- > Sludges



SERIES 752

SERIES 752HP

TECHNICAL DATA

SPECIFICATIONS

Size Range	NPS 2 to 24 DN 50 to 600
Temperature Range	Buna-N: -35°F to 194°F -37°C to 90°C
	EPDM: -65°F to 248°F -54°C to 120°C
	FKM: -15°F to 392°F -26°C to 200°C
Pressure Rating	Series 752: 232 psi 16 bar
	Series 752HP: 290 psi 20 bar
Body Style	Two-piece bolted (wafer)

MATERIAL OPTIONS¹

Body & Gland	Carbon Steel WCB
	Stainless Steel CF8, CF8M
	Duplex 2205
	Super Duplex 2507
Gate	Stainless Steel 304, 316
	Stainless Steel 17-4PH
	Duplex 2205
	Super Duplex 2507
	Hastelloy® C
	Monel®
	Alloy 20
Seat	Buna-N: -35° to 194°F -37° to 90°C
	EPDM: -65° to 248°F -54° to 120°C
	FKM: -15° to 392°F -26° to 200°C
Packing	PTFE Impregnated Synthetic Fiber with Buna-N Quad Seal: 194°F 90°C
	PTFE Impregnated Synthetic Fiber with EPDM Quad Seal: 248°F 120°C
	PTFE Impregnated Synthetic Fiber with FKM Quad Seal: 392°F 200°C
	PTFE Impregnated Synthetic Fiber: 450°F 232°C
Topworks	Steel

NOTES

- ¹ Additional material options may be available upon request. Consult factory for availability.

DESIGN STANDARDS & CERTIFICATIONS

Design	Series 752: Manufacturer Standard Series 752HP: MSS SP-135
Testing	MSS SP-151
Face to Face	Series 752: MSS SP-81 Series 752HP: MSS SP-135
Drilling¹	ASME B16.5 CL150
Certification	Canadian CRN

NOTES

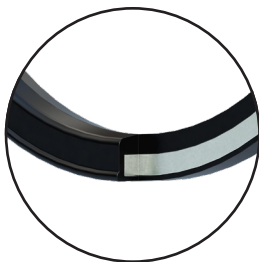
- ¹ Other flange drillings available on request.
² Flange surface finish: Spiral serrations
 (125 µin to 250 µin | 3.2 µm to 6.3µm)

ACTUATOR OPTIONS

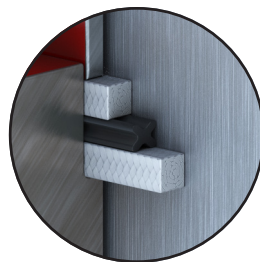
Direct Mounted Handwheel	Series 752	Standard: NPS 2 to 10 DN 50 to 250
	Series 752HP	Standard: NPS 2 to 8 DN 50 to 200
Bevel Gear	Series 752	Standard: NPS 12 to 24 DN 300 to 600
	Series 752HP	Standard: NPS 10 to 24 DN 250 to 600
Pneumatic	Optional	
Hydraulic	Optional	
Electric	Optional	

FEATURES

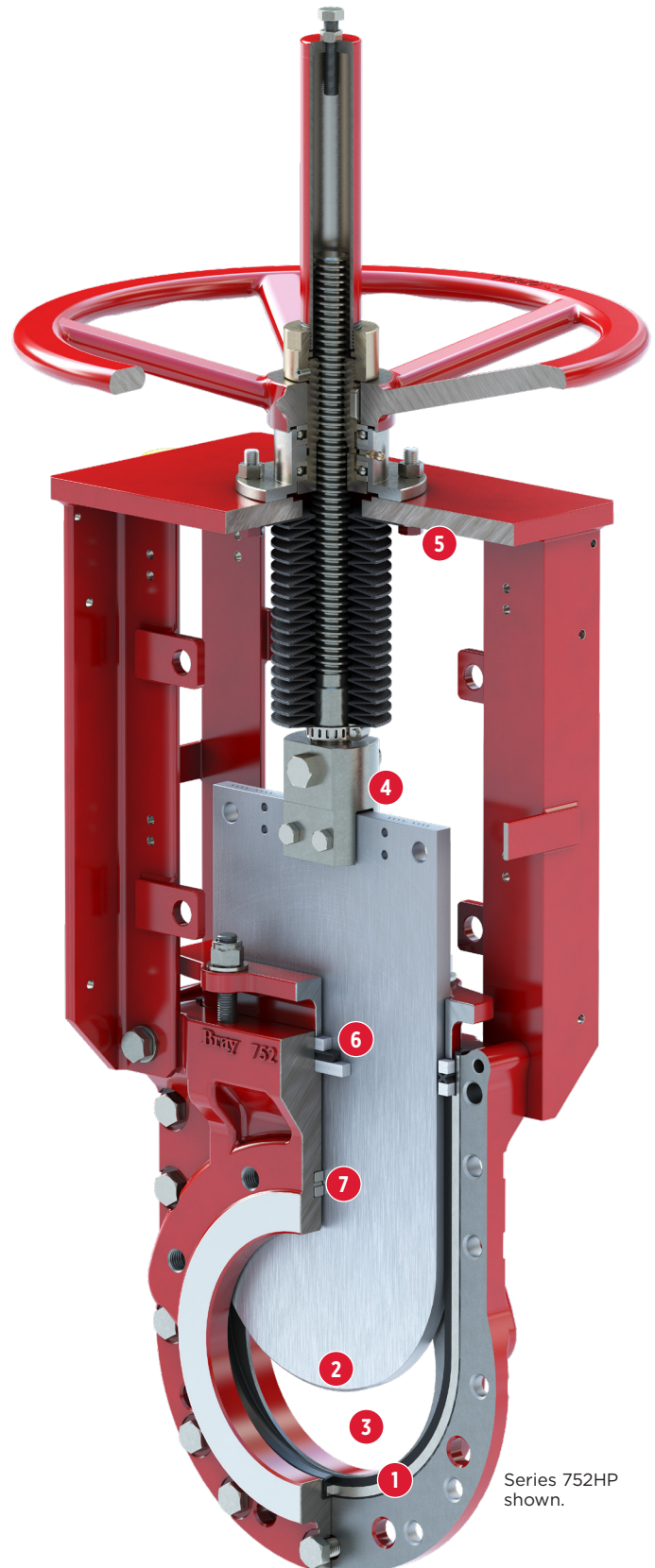
- 1 REINFORCED U-SEAL SEAT:** Precision molded seal and best-in-class elastomer formulations offer proven cycle life with bi-directional zero leakage.
- 2 BEVELED GATE EDGE:** Cuts through the flow and pushes solids aside, while the flush seat eliminates media build up in a dead pocket. The seat design provides positive isolation without purging.
- 3 UNRESTRICTED FLOW PATH:** Minimal pressure drop achieved through full port valve design. Optional polyurethane or chrome iron bore liners protect the valve body and extend service life.
- 4 CLEVIS DESIGN AND HORIZONTAL BOLTING:** Stabilizes gate ensuring proper alignment.
- 5 HEAVY DUTY YOKE, STEM, AND BELLOWS:** Standard on 752HP configuration to meet the toughest site conditions.
- 6 STANDARD ENERGIZED QUAD SEAL PACKING:** Multi-layered PTFE provides exceptional gland sealing around gate and reduces the frequency of maintenance compared to PTFE packing alone.
- 7 GUIDED DEFLECTION-RESISTANT GATE DESIGN:** Ensures consistent alignment and smooth operation for industry leading durability.



Reinforced
U-Seal Seat



Energized
Quad Seal Packing

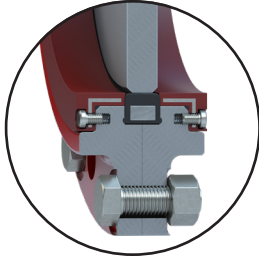


Series 752HP
shown.

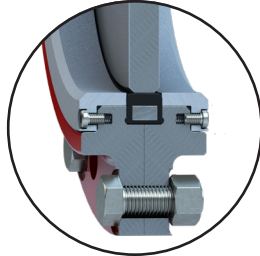
OPTIONS

BORE LINERS

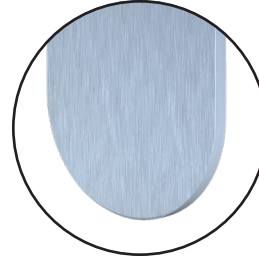
Optional bore liners, available in polyurethane and chrome iron, protect the entire bore of the valve from the flange to the gate and extend the service life in abrasive applications.



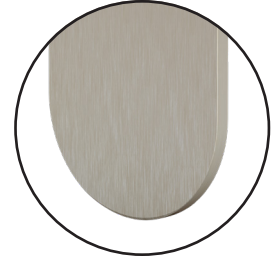
Polyurethane Bore Liner



Chrome Iron Bore Liner



Standard Gate Material



SlurryGuard™ Coating

GATE MATERIAL COATING

Bray's SlurryGuard™ coating option enhances gate hardness, provides corrosion protection, and reduces friction and scale buildup.

ACTUATOR OPTIONS | SHOWN IN RED



DIRECT MOUNTED
HANDWHEEL



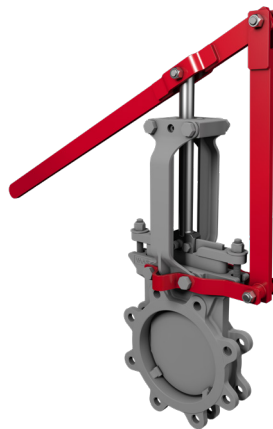
BEVEL GEAR
OPERATOR



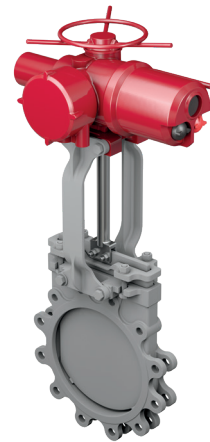
DOUBLE ACTING
PNEUMATIC ACTUATOR



HYDRAULIC ACTUATOR



LEVER

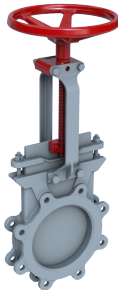


ELECTRIC ACTUATOR

AVAILABLE ACCESSORIES | SHOWN IN RED



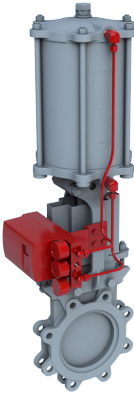
HANDWHEEL
LOCK OUT



NON-RISING
STEM



MECHANICAL
LIMIT SWITCH



ELECTRO
PNEUMATIC
POSITIONER



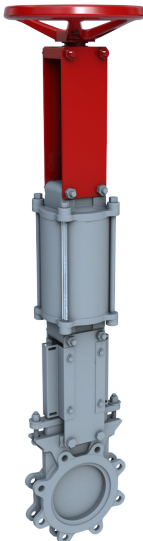
PROXIMITY
SENSOR



GATE GUARD



CHAIN WHEEL



MANUAL
OVERRIDE



PNEUMATIC
FAILSAFE

VALVE SELECTION

VALVE PART NUMBERING SYSTEM — SERIES 752HP

NOTES

- > This part numbering system applies to valve only. Operator part number is separate.
- > This part numbering system applies only to Series 752HP (290 psi | 20 bar).
For Series 752 (232 psi | 16 bar) or any other questions, please consult your Bray representative.

Select one code from each category to build a complete valve order number.¹

752-XXXX-XXX-XX-XXX

SERIES 752		SIZE XXXX			BASE GROUP XXX		CONFIGURATION XX			TRIM XXX		
Code	Body Style	Code	NPS	DN	Code	Description	Code	Configuration	Flange Drilling ^{3,4}	Code	Item	Material ²
752	Bidirectional; Two-piece; Steel Reinforced Perimeter Seat; Wafer Body	0200	2	50	110	Standard (No bore liner)	20	HP (290 psi 20 bar)	ASME 150, WT	875	Body	WCB
		0300	3	80	11P	Polyurethane bore liner	21	HP (290 psi 20 bar)	ASME 150, WTM	Gate	316	
		0400	4	100			22	HP (290 psi 20 bar)	Table D, WTM	Seat	EPDM	
		0600	6	150	11C	Chrome Iron bore liner	23	HP (290 psi 20 bar)	Table E, WTM	Packing	PTFE + EPDM QS	
		0800	8	200			24	HP (290 psi 20 bar)	DIN 10, WTM	Fasteners	B7	
		1000	10	250	916	Body	25	HP (290 psi 20 bar)	DIN 16, WTM	Gate	2205	
		1200	12	300			26	HP (290 psi 20 bar)	SANS T1000, WTM	Seat	EPDM	
		1400	14	350			27	HP (290 psi 20 bar)	SANS T1600, WTM	Packing	PTFE + EPDM QS	
		1600	16	400			Fasteners	B7				
		1800	18	450			Tower	Carbon Steel				
2000	20	500	877	Body			Gate	316				
2400	24	600			Seat	Nitrile (Buna-N)						
					Packing	PTFE + Nitrile QS						
					Fasteners	B7						
			879	Body	Tower	Carbon Steel						
					Gate	316						
					Seat	FKM						
					Packing	PTFE + FKM QS						
					Fasteners	B7						
					Tower	Carbon Steel						

NOTES

1 Not all combinations are possible.

2 For a complete list of standard materials and descriptions, refer to MATERIALS OF CONSTRUCTION. Other materials are available on request. Contact Bray for

NOTES

- Not all combinations are possible.
- For a complete list of standard materials and descriptions, refer to MATERIALS OF CONSTRUCTION. Other materials are available on request. Contact Bray for additional information.
- WT = Thru holes in body; drilled and tapped imperial in chest (fastener sizes 1 inch and larger are 8UN thread pitch)
- WTM = Thru holes in body; drilled and tapped metric in chest

EXAMPLE

752-0400-110-20-875

- > Series 752 | Bidirectional | Two-piece body | Steel reinforced perimeter seat | Wafer body
- > NPS 4 | DN 100
- > Standard (No bore liner)
- > ASME 150 WT
- > WCB Body | 316 Gate | EPDM Seat | PTFE + EPDM Quad Seal Packing | B7 Fasteners | Carbon Steel Tower

PARTS CALLOUT — SPECIFICATIONS

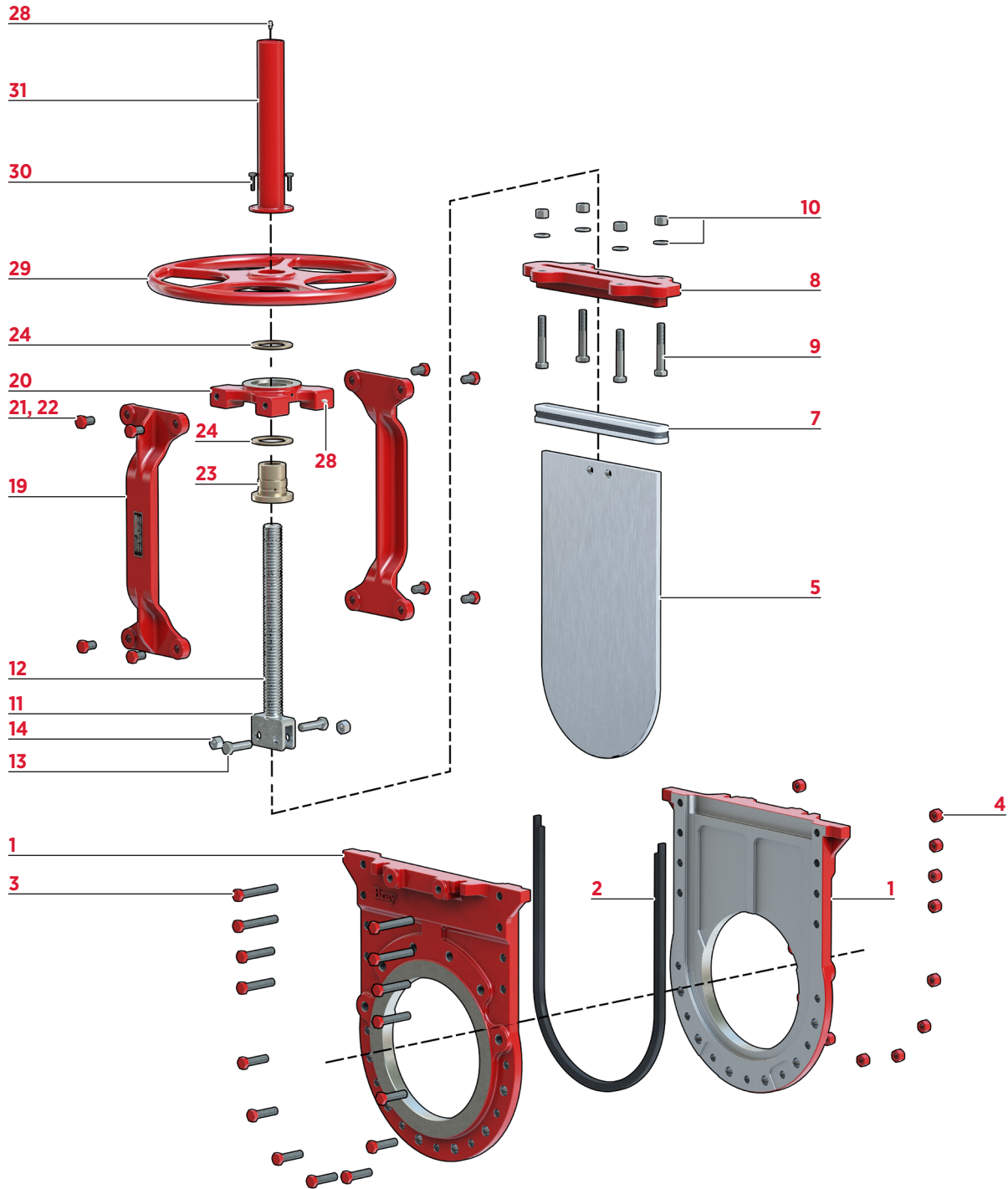
PARTS CALLOUT — SPECIFICATIONS

NPS 2 to 24 | DN50 to DN600

ITEM	DESCRIPTION	DESCRIPTION
	SERIES 752 (232 psi 16 bar)	SERIES 752HP (290 psi 20 bar)
1	Body	Body
2	Seat	Seat
3	Body Bolting	Body Bolting
4	Body Nuts	Body Nuts
5	Gate	Gate
6	—	Gate Guides
7	Packing	Packing
8	Gland	Gland
9	Gland Stud	Gland Stud
10	Gland Nuts & Washers	Gland Nuts & Washers
11	Clevis	Clevis
12	Stem	Stem
13	Gate to Clevis Bolts	Gate to Clevis Bolts
14	Gate to Clevis Nuts	Gate to Clevis Nuts
15	—	Stem to Clevis Bolts
16	—	Stem to Clevis Nuts
17	—	Bellows
18	—	Bellows Flange
19	Yoke	Tower
20	Collar	Handwheel Housing
21	Yoke Mounting Bolts	Tower Mounting Bolts
22	Yoke Mounting Washers	Tower Mounting Nuts & Washers
23	Stem Nut	Stem Nut
24	Thrust Bearings	Thrust Bearings
25	—	Housing Mounting Bolts
26	—	Housing Mounting Nuts & Washers
27	—	Key
28	Grease Nipple	Grease Nipple
29	Hand Wheel	Hand Wheel
30	Set Screws	Lock Nut & Set Screw
31	Stem Guard	Stem Guard
32	—	Travel Stop
33	—	Lifting Lug

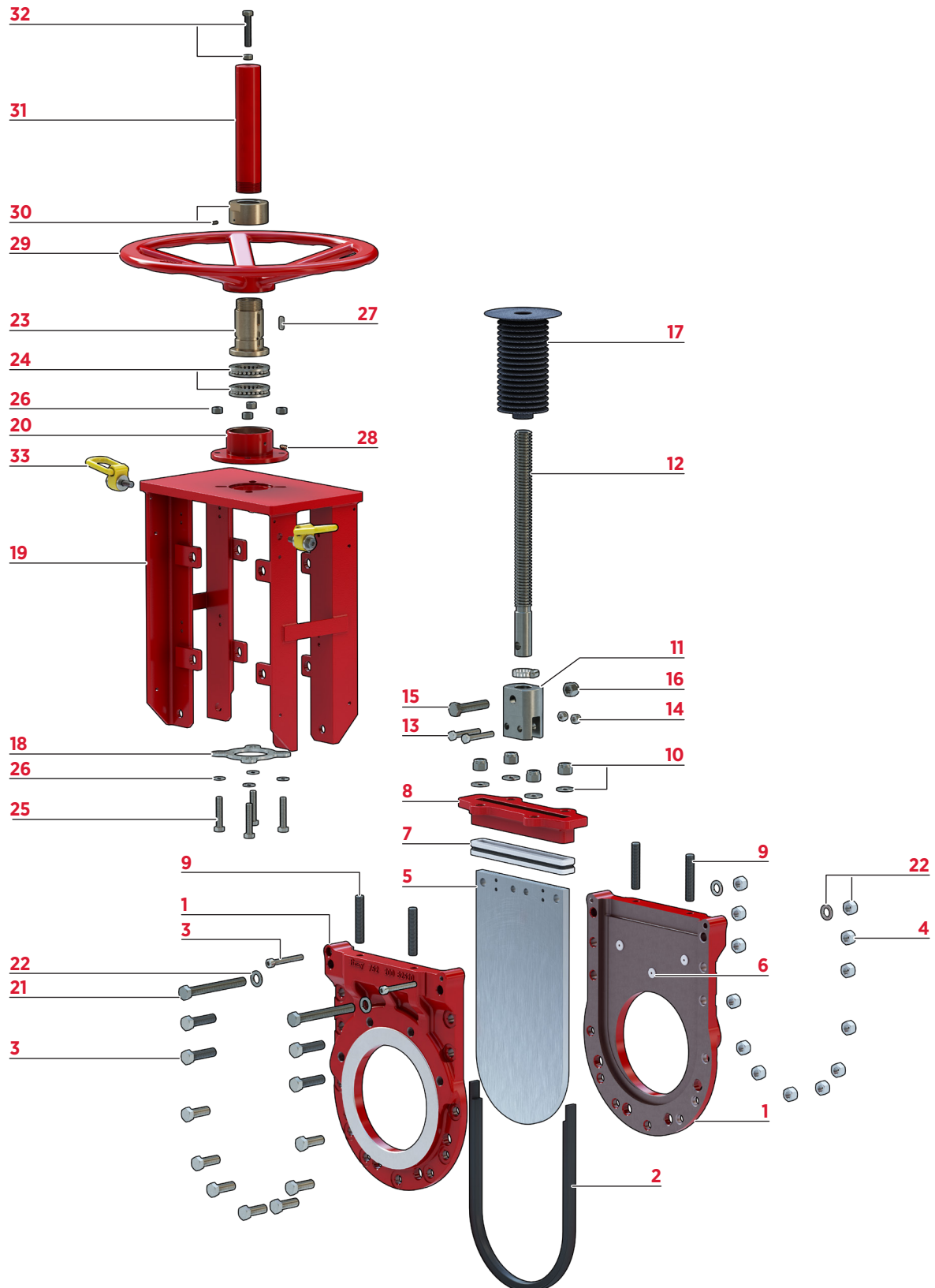
PARTS CALLOUT — SERIES 752

PARTS CALLOUT — SERIES 752 (232 psi | 16 bar)
NPS 2 to 24 | DN50 to DN600



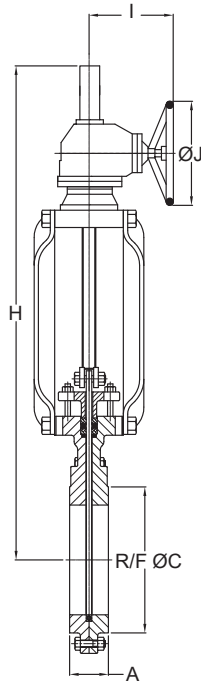
PARTS CALLOUT — SERIES 752HP

PARTS CALLOUT — SERIES 752HP (290 psi | 20 bar) NPS 2 to 24 | DN50 to DN600

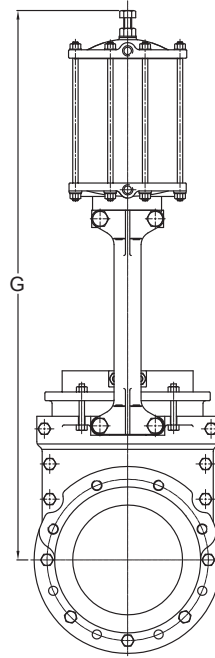


DIMENSIONS & WEIGHTS — SERIES 752 (inch & lb)

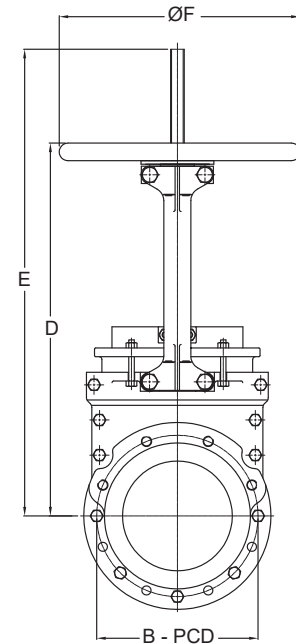
SERIES 752 (232 PSI | 16 BAR CONFIGURATION)



Bevel
Gear



Pneumatic
Actuator



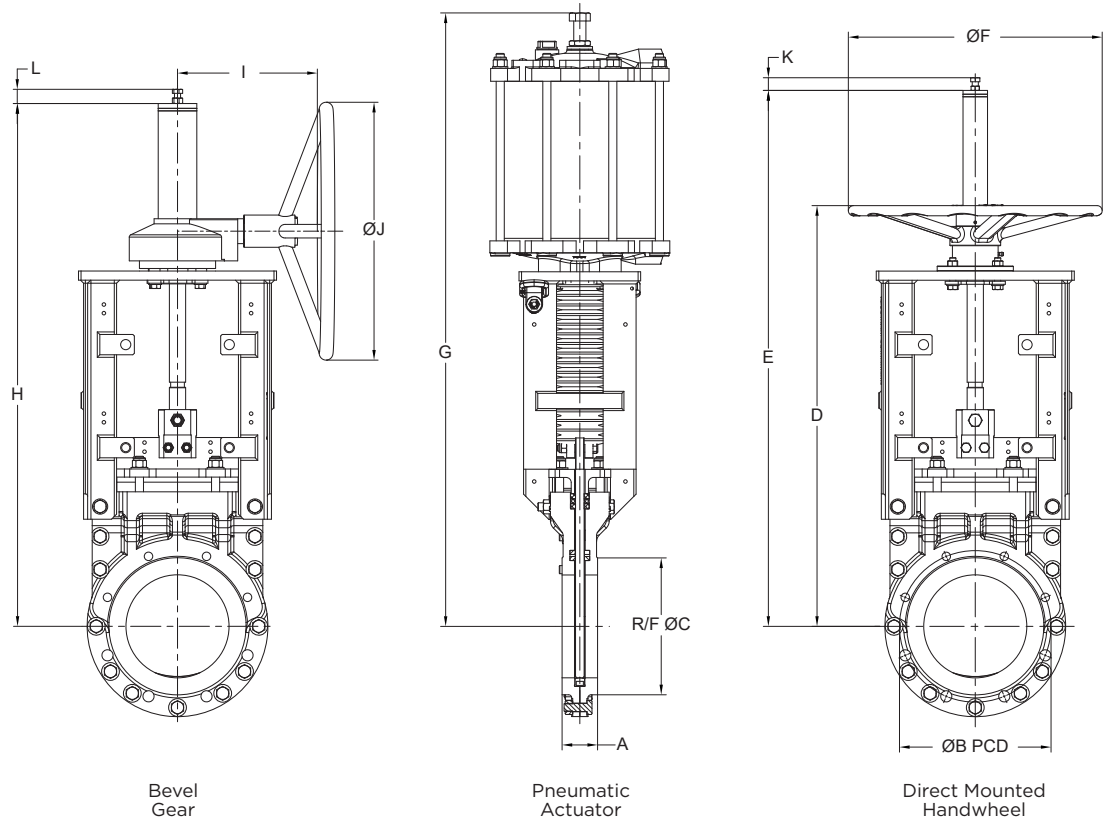
Direct Mounted
Handwheel

DIMENSIONS (inch)											WEIGHT (lbs)		
NPS	A	ØB	ØC	D	E	ØF	G	H	I	ØJ	HAND WHEEL	PNEUMATIC ACTUATOR	GEAR OPERATOR
2	1.89	4.76	3.62	13.33	15.87	7.99	18.41	—	—	—	26	53	—
3	2.01	6.02	5.00	15.71	18.49	7.99	21.84	—	—	—	42	71	—
4	2.01	7.52	6.18	17.73	22.73	10.00	25.24	—	—	—	49	101	—
5	2.24	8.50	7.32	20.67	25.39	11.97	31.10	—	—	—	71	111	—
6	2.24	9.53	8.50	22.36	28.74	11.77	33.41	—	—	—	84	123	—
8	2.76	11.77	10.63	24.95	35.28	15.98	40.06	—	—	—	132	198	188
10	2.76	14.25	12.76	31.51	40.67	15.98	50.07	44.27	12.05	20.00	174	238	243
12	2.99	17.01	14.76	—	—	—	55.72	51.61	12.05	20.00	—	419	298
14	2.99	18.74	16.26	—	—	—	59.99	56.59	12.05	20.00	—	699	463
16	3.50	21.26	18.50	—	—	—	70.46	62.83	12.99	20.00	—	915	650
18	3.50	22.76	21.00	—	—	—	77.64	69.59	12.99	20.00	—	1124	864
20	4.49	25.00	22.99	—	—	—	86.14	81.10	13.46	20.00	—	1301	1058
24	4.49	29.53	27.24	—	—	—	99.08	94.15	13.46	20.00	—	1532	1290

NOTES

- 1 Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- 3 Drilling in conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600.)

SERIES 752HP (290 PSI | 20 BAR CONFIGURATION)



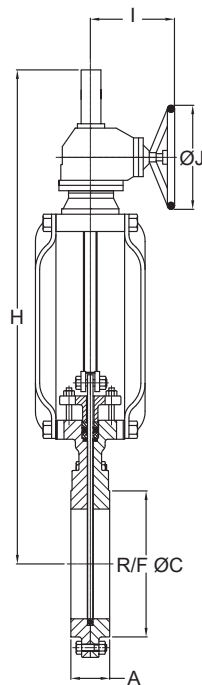
DIMENSIONS (inch)													WEIGHT (lbs)		
NPS	A	ØB	ØC	D	E	ØF	G	H	I	ØJ	K	L	HAND WHEEL	PNEUMATIC ACTUATOR	GEAR OPERATOR
2	2.05	4.75	3.62	15.59	18.98	11.81	20.87	—	—	—	0.75	—	70	59	—
3	2.05	6.00	5.00	18.98	23.46	11.81	25.13	—	—	—	0.75	—	89	83	—
4	2.02	7.50	6.30	21.28	26.63	11.81	29.45	—	—	—	1.34	—	115	123	—
6	2.28	9.50	8.50	26.18	33.54	15.75	36.69	—	—	—	0.98	—	199	257	—
8	2.76	11.75	10.63	32.64	41.57	19.69	47.28	—	—	—	0.98	1.57	323	459	—
10	3.11	14.25	12.76	—	—	—	55.16	47.87	12.13	20.00	—	1.81	—	667	433
12	3.35	17.00	15.00	—	—	—	62.99	53.86	14.96	23.62	—	1.61	—	1013	622
14	3.62	18.75	16.26	—	—	—	69.76	58.90	14.84	23.62	—	1.61	—	1449	826
16	3.75	21.25	18.50	—	—	—	74.52	65.83	14.84	23.62	—	2.05	—	1783	1229
18	4.17	22.75	21.02	—	—	—	86.14	72.40	14.84	23.62	—	1.02	—	2762	1396
20	4.49	25.00	23.03	—	—	—	94.09	81.73	16.49	27.56	—	2.87	—	3181	1830
24	5.00	29.50	27.24	—	—	—	105.90	94.60	17.66	27.56	—	2.20	—	5152	2669

NOTES

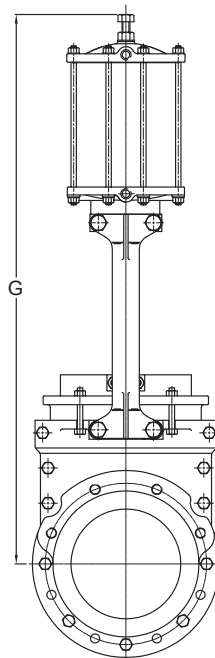
- 1 Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- 3 Drilling in conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600.)

DIMENSIONS & WEIGHTS — SERIES 752 (mm & kg)

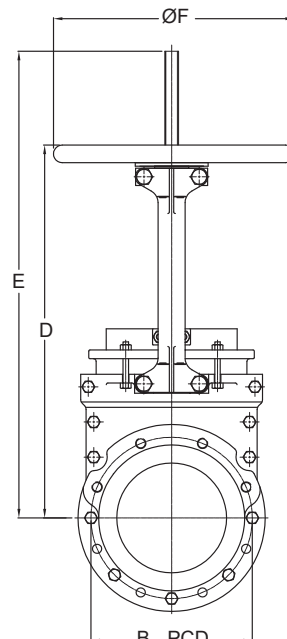
SERIES 752 (232 PSI | 16 BAR CONFIGURATION)



Bevel
Gear



Pneumatic
Actuator



Direct Mounted
Handwheel

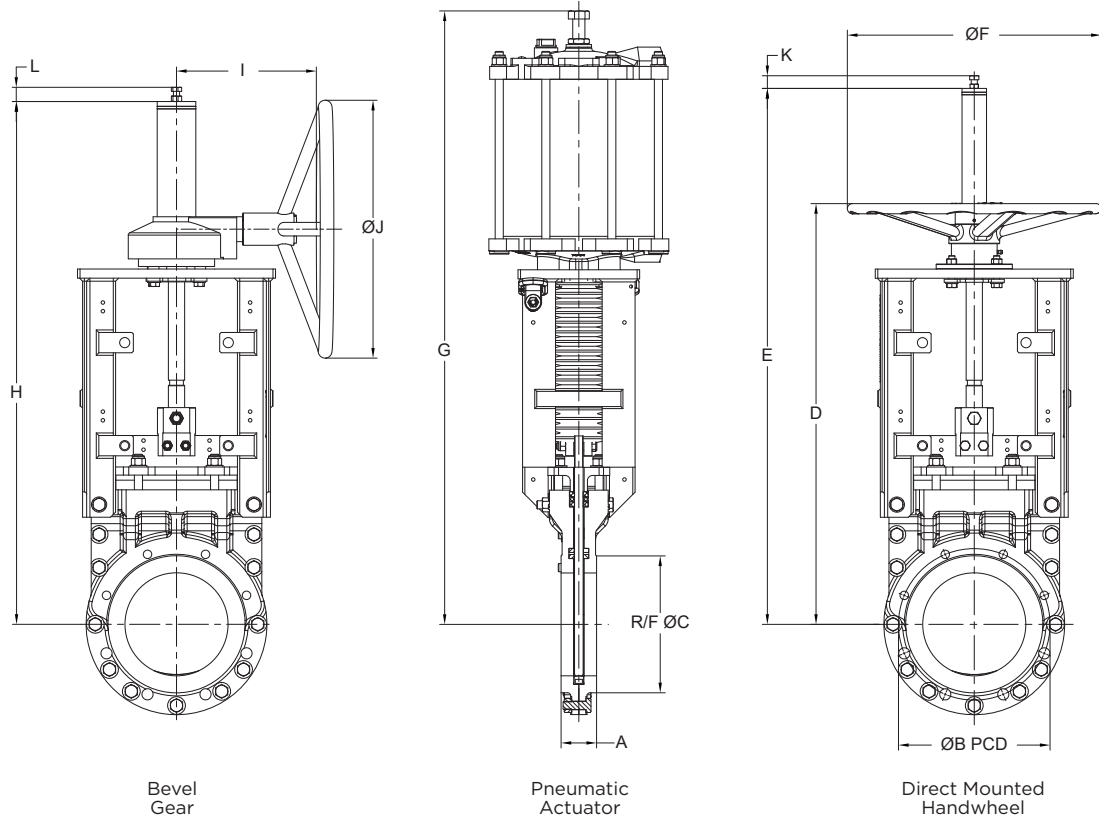
DIMENSIONS (mm)											WEIGHT (kg)		
DN	A	ØB	ØC	D	E	ØF	G	H	I	ØJ	HAND WHEEL	PNEUMATIC ACTUATOR	GEAR OPERATOR
50	48	121	92	379	403	203	510	—	—	—	12	24	—
80	51	153	127	419	470	203	575	—	—	—	19	32	—
100	51	191	157	510	577	254	701	—	—	—	22	46	—
125	57	216	186	525	645	304	790	—	—	—	33	51	—
150	57	242	216	622	730	299	903	—	—	—	38	56	—
200	70	299	270	703	896	406	1086	—	—	—	60	90	85
250	70	362	324	800	1033	406	1272	1125	306	508	79	108	110
300	76	432	375	—	—	—	1415	1311	306	508	—	190	135
350	76	476	413	—	—	—	1524	1437	306	508	—	317	210
400	89	540	470	—	—	—	1790	1596	330	508	—	415	295
450	89	578	534	—	—	—	1972	1768	330	508	—	510	392
500	114	635	584	—	—	—	2188	2060	342	508	—	590	480
600	114	750	692	—	—	—	2517	2392	342	508	—	695	585

NOTES

- 1 Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- 3 Drilling in conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600.)

DIMENSIONS & WEIGHTS — SERIES 752HP (mm & kg)

SERIES 752HP (290 PSI | 20 BAR CONFIGURATION)



DIMENSIONS (mm)												WEIGHT (kg)			
NPS	A	ØB	ØC	D	E	ØF	G	H	I	ØJ	K	L	HAND WHEEL	PNEUMATIC ACTUATOR	GEAR OPERATOR
50	52.0	120.7	92	396	482	300	530	—	—	—	19	—	32	27	—
80	52.0	152.4	127	482	596	300	643	—	—	—	19	—	40	38	—
100	51.4	190.5	160	541	677	300	748	—	—	—	34	—	52	56	—
150	58.0	241.3	216	665	852	400	932	—	—	—	25	—	90	117	—
200	70.0	298.5	270	829	1056	500	1201	—	—	—	25	40	147	209	—
250	79.0	362.0	324	—	—	—	1401	1216	308	508	—	46	—	302	196
300	85.2	431.8	381	—	—	—	1600	1368	380	600	—	41	—	459	282
350	92.0	476.3	413	—	—	—	1772	1496	377	600	—	41	—	657	374
400	95.4	539.8	470	—	—	—	1893	1672	377	600	—	52	—	808	557
450	106.0	577.9	534	—	—	—	2188	1839	377	600	—	26	—	1252	633
500	114.0	635.0	585	—	—	—	2390	2076	419	700	—	73	—	1443	830
600	127.0	749.3	692	—	—	—	2690	2403	449	700	—	56	—	2337	1210

NOTES

- 1 Consult factory for hydraulic and electric actuator dimensions.
- 2 Dimensions are approximate and subject to change. Consult factory for certified drawings.
- 3 Drilling in conformance with ASME B16.5, Class 150 for sizes NPS 2 (DN50) through NPS 24 (DN600.)

STEM AND MOUNTING DETAILS (inch)

SERIES 752 (232 PSI | 16 BAR CONFIGURATION)

STEM AND MOUNTING DETAILS (inch)							
NPS	STROKE LENGTH	STEM DIAMETER	THREADS PER INCH	THREAD	NUMBER OF TURNS (HANDWHEEL)	NUMBER OF TURNS (BEVEL GEAR)	MOUNTING BASE (ISO)
2	2.13	0.75	6	STUB ACME - LH	14	—	Mfg Std
3	3.17	0.75	6	STUB ACME - LH	20	—	Mfg Std
4	4.13	0.75	6	STUB ACME - LH	25	—	Mfg Std
5	5.20	0.75	6	STUB ACME - LH	31	—	Mfg Std
6	6.10	0.75	6	STUB ACME - LH	38	—	Mfg Std
8	7.99	1.00	5	STUB ACME - LH	41	—	Mfg Std
10	10.08	1.25	5	STUB ACME - LH	51	154	F12
12	11.93	1.50	4	STUB ACME - LH	49	146	F12
14	13.23	1.50	4	STUB ACME - LH	53	160	F12
16	15.04	1.50	4	STUB ACME - LH	61	198	F14
18	16.93	1.75	4	STUB ACME - LH	68	239	F16
20	18.90	1.75	4	STUB ACME - LH	76	266	F16
24	22.72	1.75	4	STUB ACME - LH	91	320	F16

SERIES 752HP (290 PSI | 20 BAR CONFIGURATION)

STEM AND MOUNTING DETAILS (inch)							
NPS	STROKE LENGTH	STEM DIAMETER	THREADS PER INCH	THREAD	NUMBER OF TURNS (HANDWHEEL)	NUMBER OF TURNS (BEVEL GEAR)	MOUNTING BASE (ISO)
2	2.13	1.00	5	STUB ACME - LH	11	27	F10
3	3.17	1.00	5	STUB ACME - LH	16	40	F10, F12
4	4.13	1.00	5	STUB ACME - LH	21	63	F10, F12
6	6.10	1.25	5	STUB ACME - LH	31	92	F10, F12
8	7.99	1.25	5	STUB ACME - LH	40	120	F10, F12
10	10.08	1.25	5	STUB ACME - LH	50	152	F12, F14
12	11.93	1.50	4	STUB ACME - LH	48	287	F12, F14, F16
14	13.23	1.75	4	STUB ACME - LH	53	344	F14, F16, F25
16	15.04	1.75	4	STUB ACME - LH	60	392	F14, F16, F25
18	16.93	1.75	4	STUB ACME - LH	68	441	F14, F16, F25, F30
20	18.90	2.00	4	STUB ACME - LH	76	1698	F16, F30
24	22.72	2.50	3	STUB ACME - LH	68	2187	F16, F25, F30

STEM AND MOUNTING DETAILS (mm)

SERIES 752 (232 PSI | 16 BAR CONFIGURATION)

STEM AND MOUNTING DETAILS (mm)							
DN	STROKE LENGTH	STEM DIAMETER	THREADS PER INCH	THREAD	NUMBER OF TURNS (HANDWHEEL)	NUMBER OF TURNS (BEVEL GEAR)	MOUNTING BASE (ISO)
50	58	19.1	6	STUB ACME - LH	14	—	Mfg Std
80	83	19.1	6	STUB ACME - LH	20	—	Mfg Std
100	108	19.1	6	STUB ACME - LH	25	—	Mfg Std
125	132	19.1	6	STUB ACME - LH	31	—	Mfg Std
150	159	19.1	6	STUB ACME - LH	38	—	Mfg Std
200	208	25.4	5	STUB ACME - LH	41	—	Mfg Std
250	260	31.8	5	STUB ACME - LH	51	154	F12
300	308	38.1	4	STUB ACME - LH	49	146	F12
350	338	38.1	4	STUB ACME - LH	53	160	F12
400	386	38.1	4	STUB ACME - LH	61	198	F14
450	434	44.5	4	STUB ACME - LH	68	239	F16
500	483	44.5	4	STUB ACME - LH	76	266	F16
600	580	44.5	4	STUB ACME - LH	91	320	F16

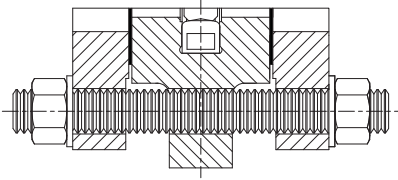
SERIES 752HP (290 PSI | 20 BAR CONFIGURATION)

STEM AND MOUNTING DETAILS (mm)							
DN	STROKE LENGTH	STEM DIAMETER	THREADS PER INCH	THREAD	NUMBER OF TURNS (HANDWHEEL)	NUMBER OF TURNS (BEVEL GEAR)	MOUNTING BASE (ISO)
50	54	25.4	5	STUB ACME - LH	11	27	F10
80	80.5	25.4	5	STUB ACME - LH	16	40	F10, F12
100	105	25.4	5	STUB ACME - LH	21	63	F10, F12
150	155	31.8	5	STUB ACME - LH	31	92	F10, F12
200	203	31.8	5	STUB ACME - LH	40	120	F10, F12
250	256	31.8	5	STUB ACME - LH	50	152	F12, F14
300	303	38.1	4	STUB ACME - LH	48	287	F12, F14, F16
350	336	44.5	4	STUB ACME - LH	53	344	F14, F16, F25
400	382	44.5	4	STUB ACME - LH	60	392	F14, F16, F25
450	430	44.5	4	STUB ACME - LH	68	441	F14, F16, F25, F30
500	480	50.8	4	STUB ACME - LH	76	1698	F16, F30
600	577	63.5	3	STUB ACME - LH	68	2187	F16, F25, F30

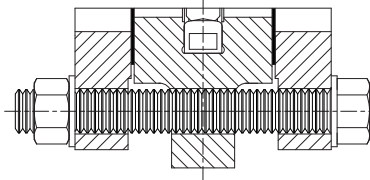
FLANGE TO VALVE BOLTING DATA — SERIES 752

SERIES 752 (232 PSI | 16 BAR CONFIGURATION)

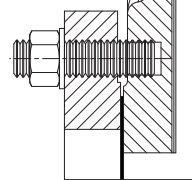
THROUGH STUD



THROUGH BOLT



CHEST STUD



ASME CLASS 150 | THROUGH STUD + CHEST STUD

DIMENSIONS (inch)								
Valve Size		Fastener Size	Through Stud	Through Stud	Chest Stud	Chest Stud	Washer	Nut
NPS	DN	Ø-Thread	Length	Qty	Length	Qty	Qty	Qty
2	50	5/8-11 UNC	5.50	2	2.25	4	8	8
3	80	5/8-11 UNC	6.00	2	2.50	4	8	8
4	100	5/8-11 UNC	6.00	4	2.50	8	16	16
5	125	3/4-10 UNC	6.50	4	2.50	8	16	16
6	150	3/4-10 UNC	6.50	4	2.50	8	16	16
8	200	3/4-10 UNC	7.50	4	2.75	8	16	16
10	250	7/8-9 UNC	7.50	6	2.75	12	24	24
12	300	7/8-9 UNC	8.00	6	3.00	12	24	24
14	350	1-8 UNC	8.50	6	3.50	12	24	24
16	400	1-8 UNC	9.00	8	3.50	16	32	32
18	450	1 1/8-7 UN	9.50	8	4.00	16	32	32
20	500	1 1/8-7M UN	11.00	10	4.50	20	40	40
24	600	1 1/4-7 UN	11.50	10	5.00	20	40	40

ASME CLASS 150 | THROUGH BOLT + CHEST STUD

DIMENSIONS (inch)								
Valve Size		Fastener Size	Through Bolt	Through Bolt	Chest Stud	Chest Stud	Washer	Nut
NPS	DN	Ø-Thread	Length	Qty	Length	Qty	Qty	Qty
2	50	5/8-11 UNC	4.50	2	2.25	4	8	6
3	80	5/8-11 UNC	5.00	2	2.50	4	8	6
4	100	5/8-11 UNC	5.00	4	2.50	8	16	12
5	125	3/4-10 UNC	5.50	4	2.50	8	16	12
6	150	3/4-10 UNC	5.50	4	2.50	8	16	12
8	200	3/4-10 UNC	6.50	4	2.75	8	16	12
10	250	7/8-9 UNC	6.50	6	2.75	12	24	18
12	300	7/8-9 UNC	7.00	6	3.00	12	24	18
14	350	1-8 UNC	7.50	6	3.50	12	24	18
16	400	1-8 UNC	8.00	8	3.50	16	32	24
18	450	1 1/8-7 UN	8.50	8	4.00	16	32	24
20	500	1 1/8-7M UN	9.50	10	4.50	20	40	30
24	600	1 1/4-7 UN	10.00	10	5.00	20	40	30

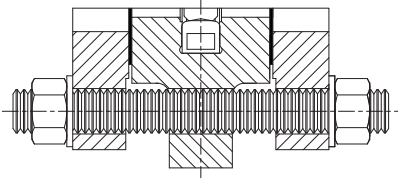
NOTES

1 Maximum gasket thickness considered of 1/8 inch (3 mm).

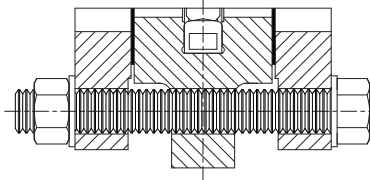
FLANGE TO VALVE BOLTING DATA — SERIES 752HP

SERIES 752HP (290 PSI | 20 BAR CONFIGURATION)

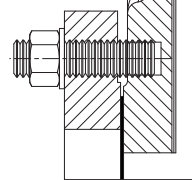
THROUGH STUD



THROUGH BOLT



CHEST STUD



ASME CLASS 150 | THROUGH STUD + CHEST STUD

DIMENSIONS (inch)								
Valve Size		Fastener Size	Through Stud	Through Stud	Chest Stud	Chest Stud	Washer	Nut
NPS	DN	Ø-Thread	Length	Qty	Length	Qty	Qty	Qty
2	50	5/8-11 UNC	6.00	2	2.50	4	8	8
3	80	5/8-11 UNC	6.50	2	2.75	4	8	8
4	100	5/8-11 UNC	6.50	4	2.75	8	16	16
6	150	3/4-10 UNC	7.00	4	3.00	8	16	16
8	200	3/4-10 UNC	7.75	4	3.25	8	16	16
10	250	7/8-9 UNC	8.50	6	3.50	12	24	24
12	300	7/8-9 UNC	9.00	6	3.50	12	24	24
14	350	1-8 UNC	9.75	6	4.00	12	24	24
16	400	1-8 UNC	10.00	8	4.00	16	32	32
18	450	1 1/8-8 UN	11.00	8	4.25	16	32	32
20	500	1 1/8-8 UN	11.75	10	4.50	20	40	40
24	600	1 1/4-8 UN	13.00	10	5.00	20	40	40

ASME CLASS 150 | THROUGH BOLT + CHEST STUD

DIMENSIONS (inch)								
Valve Size		Fastener Size	Through Bolt	Through Bolt	Chest Stud	Chest Stud	Washer	Nut
NPS	DN	Ø-Thread	Length	Qty	Length	Qty	Qty	Qty
2	50	5/8-11 UNC	5.25	2	2.50	4	8	6
3	80	5/8-11 UNC	5.50	2	2.75	4	8	6
4	100	5/8-11 UNC	5.50	4	2.75	8	16	12
6	150	3/4-10 UNC	6.00	4	3.00	8	16	12
8	200	3/4-10 UNC	6.75	4	3.25	8	16	12
10	250	7/8-9 UNC	7.50	6	3.50	12	24	18
12	300	7/8-9 UNC	8.00	6	3.50	12	24	18
14	350	1-8 UNC	8.50	6	4.00	12	24	18
16	400	1-8 UNC	8.75	8	4.00	16	32	24
18	450	1 1/8-8 UN	9.50	8	4.25	16	32	24
20	500	1 1/8-8 UN	10.25	10	4.50	20	40	30
24	600	1 1/4-8 UN	11.50	10	5.00	20	40	30

NOTES

1 Maximum gasket thickness considered of 1/8 inch (3 mm).

SINCE 1986, BRAY HAS PROVIDED FLOW CONTROL SOLUTIONS
FOR A VARIETY OF INDUSTRIES AROUND THE WORLD.

VISIT **BRAY.COM** TO LEARN MORE ABOUT
BRAY PRODUCTS AND LOCATIONS NEAR YOU.

HEADQUARTERS

Bray International, Inc.

13333 Westland East Blvd.

Houston, Texas 77041

Tel: +1.281.894.5454

All statements, technical information, and recommendations in this bulletin are for general use only. Consult Bray representatives or factory for the specific requirements and material selection for your intended application. The right to change or modify product design or product without prior notice is reserved. Patents issued and applied for worldwide. Bray® is a registered trademark of Bray International, Inc.

© 2025 BRAY INTERNATIONAL. ALL RIGHTS RESERVED. BRAY.COM

EN_TSM_S752_Bidir_KGV_20260804



THE HIGH PERFORMANCE COMPANY

BRAY.COM