

Worcester® 51/52 Series Reduced Port Flanged Ball Valve



Designed for global availability and lower total costs

The proven Worcester 51/52 series flanged ball valve from Flowserve has been engineered for worldwide availability and shorter lead times by standardizing its design, materials and construction.

As a result, the 51/52 series valve minimizes fugitive emissions, enhances safety, and ensures regulatory and standards compliance to help companies achieve decarbonization and sustainability objectives. The globalized design meets critical certifications and standards in all jurisdictions.

Specifying the 51/52 series valve also enables companies to lower the total cost of ownership owing to the standardization and interchangeability of parts, which are available in all regions.

In addition, Flowserve provides superior technical support and service available from a global network of Quick Response Centers (QRCs).

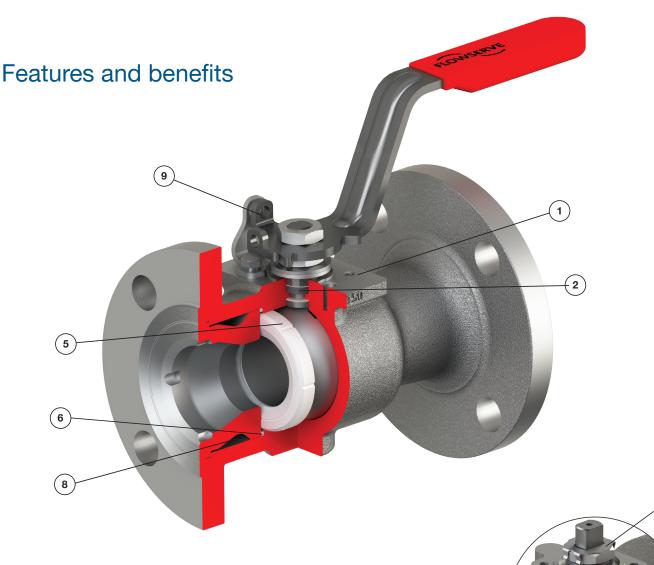


Standardized for reliability, compliance and safety

To avoid regulatory and financial risks that can occur because of fugitive emissions, Flowserve designed the Worcester 51/52 series valve to provide superior leakage resistance with a bubble-tight shutoff and a more robust, live-loaded packing design. Safety has been enhanced for end users as a result of the threaded end plug design, which ensures positive retention and eliminates any blowout risk.

Industries and applications

Chemical processing	Petrochemicals	Energy	Other industries
Thermal fluids	• BTX	Gasification	Defense
Oxygen services	Ethylene	Hydrogen	Food and beverage
Ammonia	Polyolefins/aromatics	Liquefied natural gas (LNG)	Industrial gases
Chlorine		Steam	Pharmaceuticals
Hydrogen peroxide			Water
• Phosgene			

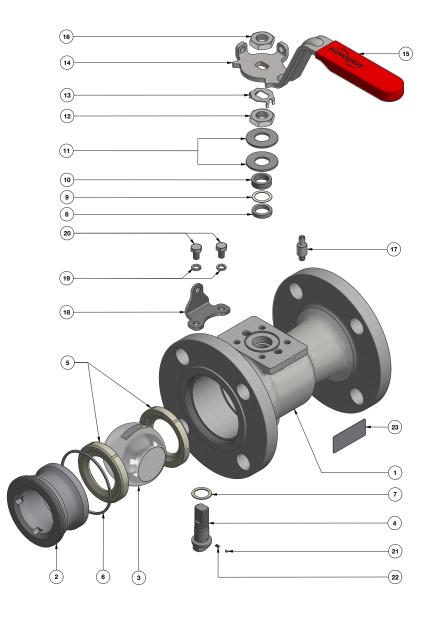


- **1 Actuator mounting** conforms to ISO 5211 and Shell MESC SPE 77/300 for ease of actuation.
- **2 Standard anti-blowout, duplex stainless steel stem** provides greater safety, increased maximum allowable stem torque (MAST) and excellent durability.
- 3 Locking clip (see inset) maintains position of the gland nut during actuation for long, leak-free performance; the gland nut does not need to be removed for actuator mounting, thereby maintaining valve integrity.
- **4 Live-loaded packing** (see inset) for enhanced reliability; conforms to API 641 and ISO 15848 fugitive emissions certification standards.
- **5 Seat design** is available in a wide range of materials to meet specific application requirements; the cavity pressure-relieving (CPR) design ensures that pressure generated through media expansion when the valve is closed is safely relieved upstream.

- 6 Body seals are PTFE as standard with fire-safe integrity maintained with metal-to-metal secondary sealing; compliant with API 607, API 608, API 641, ISO 17292 and ISO 15848.
- 7 Anti-static design is standard.
- **8 Threaded insert** provides leak-tight positive retention and improved customer safety.
- 9 Locking wrench is standard on sizes through NPS 4 (DN100).
 Optional O-ring stem seal is available for improved stem sealing performance, particularly in vacuum applications.

Parts and materials lists

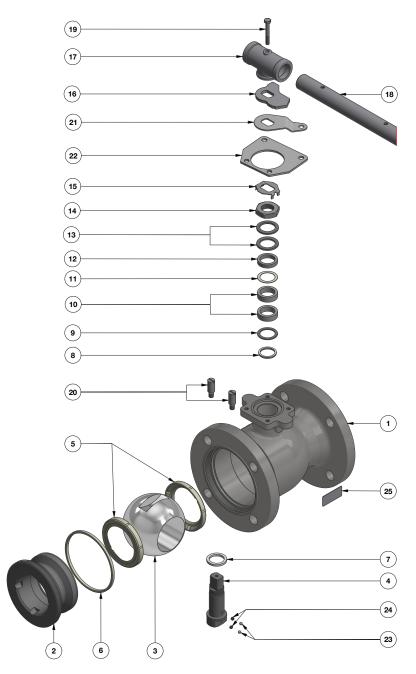
Sizes DN15 to DN50 (NPS ½ to 2)



Item	Description	Material			
1	Body*	ASTM A351 CF8M			
	Body	Stainless Steel			
2	Insert*	ASTM A351 CF8M Stainless Steel			
3	Ball	ASTM A479 316 or A351 CF8M Stainless Steel			
4	Stem	ASTM A479 S31803 Duplex Stainless Steel			
5	Seat	Virgin PTFE			
6	Body Seal	Virgin PTFE			
7	Stem Thrust Seal	25% Glass-Filled PTFE			
8	Gland Packing	Flexible Graphite			
9	Bearing Washer	25% Glass-Filled PTFE			
10	Gland	AISI 316 Stainless Steel			
11	Belleville Washer	Stainless Steel			
12	Gland Nut	Stainless Steel			
13	Gland Nut Locking Clip	Stainless Steel			
14	Locking Wrench	Stainless Steel			
15	Wrench Sleeve	Vinyl Plastisol			
16	Wrench Nut	Stainless Steel			
17	Stop Pin	Stainless Steel			
18	Locking Plate	Stainless Steel			
19	Washers	Stainless Steel			
20	Hex Head Screws	Stainless Steel			
21	Anti-static Ball	Stainless Steel			
22	Anti-static Spring	Stainless Steel			
23	Identification Plate	Stainless Steel			

*Body and insert available in LCB and other alloys

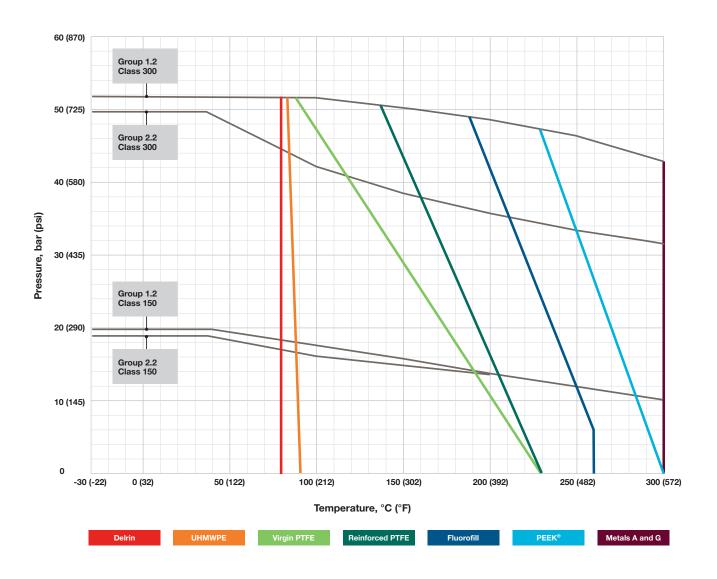
Sizes DN80 to DN200 (NPS 3 to 8)



Item	Description	Material
1	Body	ASTM A351 CF8M Stainless Steel
2	Insert*	ASTM A351 CF8M Stainless Steel
3	Ball	ASTM A351 CF8M Stainless Steel
4	Stem	ASTM A479 S31803 Duplex Stainless Steel
5	Seat	Virgin PTFE
6	Body Seal	Virgin PTFE
7	Stem Thrust Seal	25% Glass-Filled PTFE
8	Secondary Stem Seal	Virgin PTFE
9	Stem Location Ring	Stainless Steel
10	Gland Packing	Flexible Graphite
11	Bearing Washer	25% Glass-Filled PTFE
12	Gland	AISI 316 Stainless Steel
13	Belleville Washer	Stainless Steel
14	Gland Nut	Stainless Steel
15	Gland Nut Locking Clip	Stainless Steel
16	Stop Plate	AISI 316 Stainless Steel
17	Wrench Head	Stainless Steel
18	Wrench Handle	Stainless Steel
19	Hexagon Headed Bolt	Stainless Steel
20	Stop Pin	Stainless Steel
21	Moving Plate	Stainless Steel
22	Fixed Plate	Stainless Steel
23	Anti-static Ball	Stainless Steel
24	Anti-static Spring	Stainless Steel
25	Identification Plate	Stainless Steel

*Body and insert available in LCB and other alloys

Pressure/temperature ratings



Material group pressure-temperature ratings are taken from ASME B16.34.

- Group 1.2 represents our dual-certified LCB/LCC and WCB/WCC materials.
- Group 2.2 represents our CF8M material.
- See page 7 for maximum seat temperature limits.

® PEEK is a registered trademark of Victrex plc Corp.

Seat materials

Refer to page 6 to see pressure/temperature curves for each seat material.

Delrin (D)

Delrin, also known as POM or acetal homopolymer, is a durable and tough low-friction material. Its superior creep resistance means it performs excellently in high-pressure applications.

Maximum temperature rating of 80°C (180°F)

UHMWPE (U)

Ultra-high molecular weight polyethylene (UHMWPE) offers good performance characteristics in applications where PTFE is not suitable, e.g., tobacco duty. It also had good abrasion resistance.

Maximum temperature rating of 90°C (200°F)

Virgin PTFE (T)

Virgin PTFE, the most common sealing material, is suitable for almost all media since it has excellent chemical resistance. It also has an exceptionally low coefficient of friction, allowing for low valve operating torque.

Maximum temperature rating of 230°C (450°F)

Reinforced PTFE (R)

Seats made from PTFE reinforced with glass are stronger and more wear-resistant than virgin PTFE seats, making them more suitable for applications involving higher pressure/ temperature ratings or high cycling.

Maximum temperature rating of 230°C (450°F)

Fluorofill/Polyfill (P)

Seats made from PTFE reinforced with carbon, glass and graphite have outstanding dimensional stability across a broad temperature range. This material is well-suited for a variety of thermal services, including steam and cryogenic applications. Due to its high cycling capabilities, Fluorofill seats are recommended for modulating control applications.

Maximum temperature rating of 260°C (500°F)

PEEK (X)

Polyether ether ketone (PEEK) demonstrates outstanding pressure capabilities at elevated temperatures, and that is why it has the highest P/T rating of our non-metallic seat materials. It also has very good chemical and abrasion resistance.

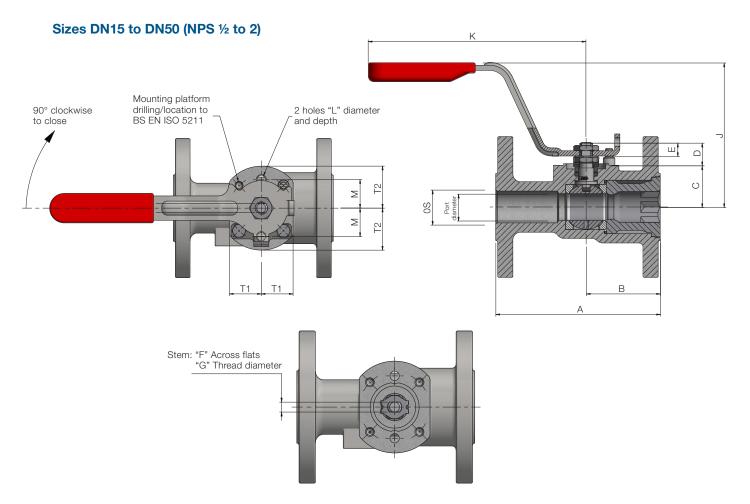
Maximum temperature rating of 315°C (600°F)

Metal (A or G)

Seats made from 316L sintered metal impregnated with PTFE (A) or graphite (G) help to reduce torque and improve operability. The strength of the metal creates seats which offer excellent abrasion resistance and pressure-handling capabilities at elevated temperatures.

Maximum temperature rating of 315°C (600°F)

Dimensions

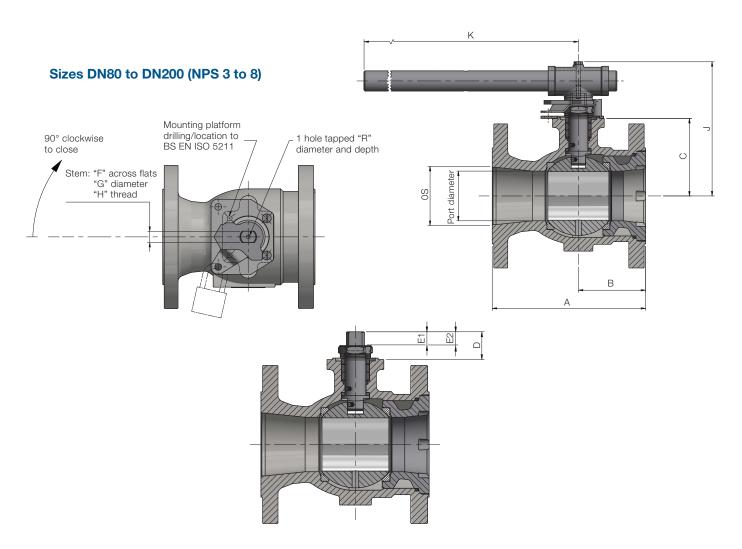


Dimensions indicated in mm (in.)

Valve	Size	Valve	Min.			- 10	- 10	Е	Ste	m			L		s			ISO	Approx.
DN	NPS	Series	Port Ø	A	В	C ⁽¹⁾	D ⁽¹⁾	Min.	F ⁽¹⁾	G Thread	J	K	Thread and Depth	М	Ø	T1	T2	Size ⁽²⁾	Weight kg (lb)
15	1/2	F51	11.1 (0.437)	108.0 (4.252)	52.5 (2.067)	22.96 (0.904) 22.70 (0.894)	18.0 (0.709) 17.0 (0.669)	8.1 (0.319)	7.00 (0.276) 6.96 (0.274)	M10 x 1.25p	102.6 (4.039)	155 (6.102)	M6 x 1.0p x 9.2 (0.362) Min.	16.9 (0.665)	15 (0.591)	19.2 (0.756)	23.25 (0.915)	F03	1.8 (4.0)
15	72	F52	11.1 (0.437)	140.0 (5.512)	52.5 (2.067)	22.96 (0.904) 22.70 (0.894)	18.0 (0.709) 17.0 (.669)	8.1 (0.319)	7.00 (.276) 6.96 (0.274)	M10 x 1.25p	102.6 (4.039)	155 (6.102)	M6 x 1.0p x 9.2 (0.362) Min.	16.9 (0.665)	15 (0.591)	19.2 (0.756)	23.25 (0.915)	F03	2.4 (5.3)
20	34	F51	14.4 (0.567)	117.0 (4.606)	54.6 (2.15)	22.96 (0.904) 22.70 (0.894)	18.0 (0.709) 17.0 (0.669)	8.1 (0.319)	7.00 (0.276) 6.96 (0.274)	M10 x 1.25p	102.6 (4.039)	155 (6.102)	M6 x 1.0p x 9.2 (0.362) Min.	16.9 (0.665)	20 (0.787)	19.2 (0.756)	23.25 (0.915)	F03	2.2 (4.9)
20	9/4	F52	14.4 (0.567)	152.0 (5.984)	54.6 (2.15)	22.96 (0.904) 22.70 (0.894)	18.0 (0.709) 17.0 (0.669)	8.1 (0.319)	7.00 (0.276) 6.96 (0.274)	M10 x 1.25p	102.6 (4.039)	155 (6.102)	M6 x 1.0p x 9.2 (0.362) Min.	16.9 (0.665)	20 (0.787)	19.2 (0.756)	23.25 (0.915)	F03	3.6 (7.9)
25		F51	20.7 (0.815)	127.0 (5.000)	57.2 (2.252)	32.34 (1.273) 32.08 (1.263)	18.0 (0.709) 17.0 (0.669)	10.4 (0.409)	7.00 (0.276) 6.96 (0.274)	M10 x 1.25p	111.6 (4.394)	168 (6.614)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	27 (1.063)	25.25 (0.994)	32.8 (1.291)	F05	3.1 (6.8)
25		F52	20.7 (0.815)	165.0 (6.496)	68.2 (2.685)	32.34 (1.273) 32.08 (1.263)	18.0 (0.709) 17.0 (0.669)	10.4 (0.409)	7.00 (0.276) 6.96 (0.274)	M10 x 1.25p	111.6 (4.394)	168 (6.614)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	27 (1.063)	25.25 (0.994)	32.8 (1.291)	F05	4.8 (10.6)
40	41/	F51	31.8 (1.252)	165.0 (6.496)	66.6 (2.622)	42.33 (1.667) 42.07 (1.656)	27.0 (1.063) 26.0 (1.024)	11.8 (0.465)	9.50 (0.374) 9.46 (0.372)	M14 x 1.5p	130.9 (5.154)	193 (7.598)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	40 (1.575)	25.25 (0.994)	32.8 (1.291)	F05	5.6 (12.3)
40	1½	F52	31.8 (1.252)	190.0 (7.480)	66.6 (2.622)	42.33 (1.667) 42.07 (1.656)	27.0 (1.063) 26.0 (1.024)	11.8 (0.465)	9.50 (0.374) 9.46 (0.372)	M14 x 1.5p	130.9 (5.154)	193 (7.598)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	40 (1.575)	25.25 (0.994)	32.8 (1.291)	F05	8.8 (19.4)
50	2	F51	38.2 (1.504)	178.0 (7.008)	70.9 (2.791)	47.06 (1.853) 46.80 (1.843)	27.0 (1.063) 26.0 (1.024)	11.8 (0.465)	9.50 (0.374) 9.46 (0.372)	M14 x 1.5p	135.7 (5.343)	193 (7.598)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	50 (1.969)	27 (1.063)	38.75 (1.526)	F05	8.0 (17.6)
30	2	F52	38.2 (1.504)	216.0 (8.504)	70.9 (2.791)	47.06 (1.853) 46.80 (1.843)	27.0 (1.063) 26.0 (1.024)	11.8 (0.465)	9.50 (0.374) 9.46 (0.372)	M14 x 1.5p	135.7 (5.343)	193 (7.598)	M8 x 1.25p x 9.7 (0.382) Min.	22.25 (0.876)	50 (1.969)	28 (1.102)	38.75 (1.526)	F05	10.9 (24.0)

⁽¹⁾ Dimensions C, D and F are indicated for the minimum and maximum tolerances to support mounting kits and automation. All other dimensions indicate their centerline.

⁽²⁾ ISO platform dimensions as per ISO 5211.



Dimensions indicated in mm (in.)

Valve	Size	Valve Series	Min. Port	A	В	C ⁽¹⁾	D ⁽¹⁾	E1 Min.	E2 Min.	Stem		Stem				Stem		Stem		Stem J K		К	S	R Thread and Depth	ISO Size ⁽²⁾	Approx. Weight
DN	NPS	Selles						IVIIII.	IVIIII.	F ⁽¹⁾	GØ	H Thread				Tilleau allu Deptil	3126	kg (lb)								
80	3	F51	65.8 (2.591)	203.0 (7.992)	89.0 (3.504)	102.7 (4.043) 102.3 (4.028)	34.0 (1.339) 33.0 (1.299)	16.6 (0.654)	17.1 (0.673)	14.99 (0.590) 14.95 (0.589)	21.95 (0.864) 21.85 (0.860)	M24 x 2.0p	175.7 (6.917)	349.0 (13.74)	78.2 (3.079)	M6 x 1.0p x 12.0 (0.472) Min.	F07	16.8 (37.0)								
80	3	F52	64.2 (2.528)	282.0 (11.102)	89.0 (3.504)	102.7 (4.043) 102.3 (4.028)	34.0 (1.339) 33.0 (1.299)	16.6 (0.654)	17.1 (0.673)	14.99 (0.590) 14.95 (0.589)	21.95 (0.864) 21.85 (0.860)	M24 x 2.0p	175.7 (6.917)	349.0 (13.74)	78.5 (3.090)	M6 x 1.0p x 12.0 (0.472) Min.	F07	25.1 (55.3)								
100	4	F51	76.5 (3.012)	229.0 (9.016)	107.0 (4.213)	112.2 (4.417) 111.8 (4.402)	34.0 (1.339) 33.0 (1.299)	16.6 (0.654)	17.1 (0.673)	14.99 (0.590) 14.95 (0.589)	21.95 (0.864) 21.85 (0.860)	M24 x 2.0p	185.2 (7.291)	349.0 (13.74)	101.9 (4.012)	M6 x 1.0p x 12.0 (0.472) Min.	F07	25.4 (56.0)								
100	4	F52	76.5 (3.012)	305.0 (12.008)	107.0 (4.213)	119.7 (4.713) 119.3 (4.697)	45.0 (1.772) 43.0 (1.693)	22.0 (0.866)	22.6 (0.890)	18.99 (0.748) 18.94 (0.746)	27.95 (1.100) 27.85 (1.096)	M30 x 2.0p	206.7 (8.138)	557.0 (21.929)	104.5 (4.114)	M6 x 1.0p x 12.0 (0.472) Min.	F10	40.2 (88.6)								
150 ⁽³⁾	6 ⁽³⁾	F51	102.3 (4.028)	267.0 (10.512)	129.0 (5.079)	140.4 (5.528) 140.0 (5.512)	45.0 (1.772) 43.0 (1.693)	24.7 (0.972)	21.5 (0.846)	18.99 (0.748) 18.94 (0.746)	27.95 (1.100) 27.85 (1.096)	M30 x 2.0p	-	-	154 (6.063)	M6 x 1.0p x 12.0 (0.472) Min.	F10	42.0 (92.6)								
150₩	b ^(o)	F52	102.3 (4.028)	403.0 (15.866)	129.0 (5.079)	146.9 (5.783) 146.5 (5.768)	56.0 (2.205) 54.0 (2.126)	27.1 (1.067)	27.1 (1.067)	23.99 (0.944) 23.94 (0.943)	36.00 (1.417)	M36 x 2.0p	-	-	154 (6.063)	M8 x 1.25p x 12.0 (0.472) Min.	F12	73.1 (161.2)								
000[3]	0/3	F51	153 (6.024)	292.0 (11.496)	144.5 (5.689)	182.2 (7.173) 181.8 (7.157)	55.8 (2.197) 54.0 (2.126)	26.9 (1.059)	26.9 (1.059)	23.99 (0.944) 23.94 (0.943)	36.00 (1.417)	M36 x 2.0p	-	-	206.5 (8.13)	M8 x 1.25p x 12.0 (0.472) Min.	F12	75.5 (166.5)								
200(3)	8(3)	F52	153 (6.024)	419.0 (16.496)	144.5 (5.689)	194.4 (7.654) 194.0 (7.638)	69.0 (2.717) 67.0 (2.638)	35.0 (1.378)	35.0 (1.378)	31.99 (1.259) 31.93 (1.257)	48.00 (1.889)	M48 x 3.0p	-	-	206.5 (8.13)	M8 x 1.25p x 12.0 (0.472) Min.	F14	121.3 (267.4)								

⁽¹⁾ Dimensions C, D and F are indicated for the minimum and maximum tolerances to support mounting kits and automation. All other dimensions indicate their centerline.

⁽²⁾ ISO platform dimensions as per ISO 5211.

⁽³⁾ DN150 (NPS 6) and DN200 (NPS 8) have gearboxes as standard. Consult factory for gearbox dimensions.

Technical information

Standards of compliance

BS EN ISO 17292 and API 608					
Pressure Equipment Directive 2014/68/EU					
Pressure Equipment Regulations SI 2016					
Assessment Category: Pressure Accessory, Group 1 GAS, Table 6, Module 'H', Catgory III					
SIL 3 Capable					
TSG					
FM					
UL					
CRN					
TR CU 010/012/032					
F51 Series: BS EN 558-2 and ASME B16.10					
F52 Series: BS EN 558-2 and ASME B16.10					
BS EN 1759-1 and ASME B16.5 CL150					
BS EN 1759-1 and ASME B16.5 CL300					
ISO 15848: Class BH and API 641					
MSS SP-55					
API 607 and ISO 10497					
BS EN 12266-1, ISO 5208 and API 598					
NACE MR0175 and ISO 15156 or MR0103					

Flow coefficients

Valve	Size	Flow Co	efficients	Equivalent Length of Pipe				
DN	NPS	Cv (1)	Kv (2)	m	ft			
15	1/2	8	7	1.19	3.9			
20	3/4	12	10	2.65	8.7			
25	1	32	28	1.10	3.6			
40	1½	82	71	1.13	3.7			
50	2	120	104	1.98	6.5			
80	3	350	303	2.16	7.1			
100	4	720	623	2.10	6.9			
150	6	1,020	882	6.22	20.4			
200	8	1,800	1,557	11.49	37.7			

- (1) Cv: Flow in US gpm (measured with a pressure drop across the valve of 1 psi)
- (2) Kv: Flow in m³/h (measured with a pressure drop across the valve of 1 bar)

Torque values

Valve	Size	Valve	Maximum Allowable	Stem Torque (MAST) (1)	Break-to-Open Torq	ue With PTFE Seat ⁽²⁾	Gland Nut Tigl	ntening Torque	
DN	NPS	Series	Nm	inlb	Nm	inlb	Nm	inlb	
45	.,	51	40	354	5	44	4.5 to 6.0	40.150	
15	1/2	52	40	354	5	44	4.5 to 6.0	40 to 53	
20	3/4	51	40	354	5	44	4.5 to 6.0	40 to 53	
20	9/4	52	40	354	5	44	4.5 to 6.0	40 to 53	
25		51	40	354	7	62	5.5 to 7.5	49 to 66	
25	1	52	40	354	9	81	5.5 to 7.5	49 to 66	
40	11/2	51	110	974	19	168	8 to 11	71 to 97	
40	1 //2	52	110	974	26	230	01011	711097	
50	2	51	110	974	24	212	8 to 11	71 to 97	
50	2	52	110	974	32	283	8 10 11	711097	
80	3	51	609	5,390	72	637	27 to 32	239 to 283	
80	3	52	609	5,390	105	929	27 10 32	239 10 283	
100	4	51	609	5,390	130	1,151	27 to 32	239 to 283	
100	4	52	1,046	9,256	190	1,682	27 10 32	239 10 283	
150	6	51	1,046	9,256	276	2,443	36 to 43	319 to 381	
130	_ °	52	1,568	13,878	435	3,850	30 (0 43	31910381	
200		51	1,568	13,878	480	4,248	44 to 50	000 +- 440	
200	8	52	4,249	37,607	675	5,974	44 (0 50	389 to 443	

⁽¹⁾ MAST values calculated using the standard duplex stainless steel stem material $\,$

⁽²⁾ Duty factor = 0; F51 @ 20 bar; F52 @ 50 bar; values are from AUTOSIZE 4.3; consult factory for other seat materials

Product code

Example 1:		5 6 6 7 8 9 10 11	
Example 2:		6 6 6 R T	

1. Size

Code	DN	NPS
05	15	1/2
07	20	3/4
10	25	1
15	40	11/2
20	50	2
30	80	3
40	100	4
60	150	6
80	200	8

2. Variant

- **F** Fire-safe
- **CF** Cryogenic fire-safe, including bonnet extension
- EF EnviroSafe fire-safe
- **S** Shell-compliant
- V V-Flow CPT control valve

3. Series

- 51 Class 150 one-piece valve
- 52 Class 300 one-piece valve

4. Body

- 4 WCB/WCC
- 5 LCB/LCC
- **6** CF8M
- 7 Monel®
- A Alloy 20
- C Hastelloy® C

5. End/insert

- 4 WCB/WCC
- 5 LCB/LCC
- **6** CF8M
- 7 Monel
- A Alloy 20
- C Hastelloy C

6. Ball

- 6 CF8M
- 7 Monel
- A Alloy 20
- C Hastelloy C

7. Stem

- 6 Stainless steel(1)
- **Q** 17-4PH
- 7 Monel⁽²⁾
- A Alloy 20(2)
- C Hastelloy C(2)

8. Seat

- **D** Delrin
- T V-PTFE
- R Reinforced PTFE
- P Fluorofill/Polyfill
- **U** UHMWPE
- X PEEK
- A Metal impregnated with PTFE
- **G** Metal impregnated with graphite

9. Body seal

T V-PTFE

10. Thrust seal

7 25% glass PTFE

11. Secondary stem seal/O-ring (optional)(3)

- T V-PTFE
- V FKM

12. Gland/stem packing

Z Graphite

13. End connection/pressure class

- 150 ANSI B16.5 Class 150
- 300 ANSI B16.5 Class 300

14. Special

Consult factory for "Special" options.

Note: The 51/52 series valves include a gearbox as standard for sizes DN150 (NPS 6) or larger. This is not called out in the product code because it is a standard feature. Likewise, locking wrenches are included as standard for all valve sizes up to DN100 (NPS4).

- (1) Stainless steel stem material grade is selected based on stem strength and end use application requirements. Duplex as standard.
- (2) Depending on end use conditions, these stem materials may not comply with all the requirements of ISO 17292 or API 608.
- (3) Valve sizes DN50 (NPS 2) or below do not contain a secondary stem seal. As a result, this is reflected in the product code as a dash (-) to represent 'no option'.
- (4) Consult factory for other build configurations and materials.
- ® Hastelloy is a registered trademark of Haynes International.
- ® Monel is a registered trademark of International Nickel Co.



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Get the insights and tools needed to monitor, analyze and predict the performance of the Worcester 51/52 series valve with RedRaven from Flowserve, an end-to-end predictive maintenance solution.

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Headquarters

Flowserve Corporation 5215 North O'Connor Blvd. Suite 700 Irving, Texas 75039-5421 USA

North America

Cookeville, TN USA Telephone: +1-931-432-4021

EMEA

Haywards Heath United Kingdom Telephone: +44-(0)-1444-314400

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