

14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada MBX 2X4 Tel.: 416.734.3300 Fax: 416.231.1626

Toll Free: 1.877.682.8772

www.tssa.org

December 15, 2014

JEREMY PAYNE
ASHCROFT INC.
250 E MAIN STREET
STRATFORD CT 06614
US

Service Request Type: BPV-Fitting Registration

Service Request No.: 1537806

Your Reference No.: BULLETIN DG-5503

Registered to: ASHCROFT INC.

Dear JEREMY PAYNE,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0F2805.75

Main Design No.: BULLETIN DG-5503, SCOPE OF REGISTRATION SR-5503 REV 0

Expiry Date: 07-Nov-2024

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Ruiming You, P Eng.

Mechanical Engineer, BPV

Tel.: 416-734-3428 Fax: 416-231-6183 Email: ryou@tssa.org



TECHNICAL STANDARDS & SAFETY AUTHORITY

14th Floor, Centre Tower 3300 Bloor Street West Toronto, Ontario Canada M8X 2X4 Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below



	STATUTORY DE Registration of	_	
1 Dhillin Do	_	J	
i, Philip Red	ed Quality Assurance Manager (Name and Position, e.g. President, Plant Ma	anager, Chief Engineer)	
	- 1 design - - 1 20 ti		
of Ashcroft,	Inc. (Name of Manufacture	r)	
	(Mano of Managolaro)	'/	
Located at	250 Main Street, Stratford, Connecticut 06614, USA	203-385-0318	203-385-0662
	(Plant Address)	(Telephone No.)	(Fax No.)
	emnly declare that the fittings listed hereunder, which are sub- essure Vessels Regulation, comply with all of the requirement		ards and Safety Act, Boilers
ASMI	E B31.3; B31.1; ANSI 82.03		
which e	(Title of recognized North American pecifies the dimensions, materials of construction, pressure/tempe		king the fittings and senios
AN HOLL S	pedilles the difficulties, materials of construction, pressure/tempe	rature ratings, identification mai	ning the littings and service,
or are	not covered by the provisions of a recognized North Americal as supported by the attached of		, -
pressu	re/temperature ratings and the basis for such ratings, the mark		
I further decla	re that the manufacture of these fittings is controlled by a quali which has been verified by the following authority,Lloyd's		ments of <u>ISO 9001:2008</u>
The items cove	ered by this declaration, for which I seek registration, are category		type fittings. In support of
	the following information and/or test data are attached as follows:		typo mango. in support of
	ferential pressure gauge per Ashcroft bulletin DG-5503; scope	of registration SR-5503-Rev0	1
	(drawings, calculations, test rep	*	
Declared bef	ore me at <u>Stratford</u> In the	State	or Connecticii
the 104	n day of October AD 20 14.		
Commission	er for Oaths:		
- Ty	(Printed/name) IRENE FERRIGNO NOTARY PUBLIC State of Connecticu My Commission Expi (Signature) November 30, 2017	t LIN) Declarer)
<u></u>			
To the best of a	FOR OFFICE USE (my knowledge and belief, the application meets the requirement		
	ndards and Safety Act, Boilers and Pressure Vessels Regulation		
	B51 and is accepted for registration in Category	on, and	Marry .
	201 and to decopted to regionalism outagery	2.701	
CRN:	of 2805.75		ا سانتساد
Registered by	: Ruining Joy	o)	-2805.75
Dated:	Dec. 15. 2014		
NOTE: This	registration expires on Nov. 7, 2024	L Dec	.15, 2014



<u>Scope of Registration Summary – Type 5503 differential Pressure Gauges</u>

Differential Pressure Gauge Type	Process Connection Sizes (in) ASME B1.20.1	Maximum Pressure in Temperature Range (psi)	Temperature range (°F)	Material
5503 (PN400)	14 NPT, 12 NPT	265 bar [1] 400 bar [2]	-20 to 185	A182 F316L
5503 (PN160)		145 bar [1] 160 bar [2]		

- [1] Qualified per ASME B31.1 referenced Section I, A-22 & ASME B31.3 referenced ASME Section VIII, div. 1, UG-101.
- [2] Qualified per ANSI/ISA 82.03–1988 (equivalently Annex G of CSA C22.2 No. 61010-1, Sections G.2.3 (a) & (b), and Table G.1)
- [3] See Ashcroft bulletin DG-5503 for product specifications
- [4] See PR-5503-Rev0 for witnessed proof test reports and calculations.

I, the undersigned, hereby confirm that the above is accurate and true:

Approved by:	Signed:
Date Signed: 6 October 2014	
	THIS IS PART OF

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

SR-5503, Rev. 0 Page 1 of 1



(XYW)

(XEE)

Type 5503 Differential Pressure Gauge





- · ± 1.6% full scale accuracy
- · Stainless steel case
- · Nace compliant option
- Available with custom flow monitoring dials
- 1450 psi static pressure standard with optional static pressure to 5801 psi
- · External zero adjust
- · Optional liquid-filled case
- · 4" (100mm) or 6" (160mm) dial sizes

The Ashcroft® Type 5503 differential pressure gauge is available with ranges from 16 I.W.D. to 600 psi with optional static pressure to 5801 psi. Optional wetted parts includes Hastelloy C. Typical applications include chemical, petrochemical power, food & beverage and the pulp and paper industries.

PRODUCT SPECIFICATIONS

Model Number: 5503

Accuracy: ±1.6% full scale

Dial Size: 4" (100mm) or 6" (160mm)

Ranges: 0-30 IWD (inches of water differen-

tial) to 300 psid

Static Pressure: 1450 psi standard

Optional

3625 psi ranges <10 psid 5801 psi ranges >10 psid

Case Material: 304 SS open front case with a bay-

onet ring; (316 SS case and ring

optional)

Window: Shatterproof glass

Dial: White painted aluminum

Pointer: Black painted aluminum with exter-

nal adjust feature standard (to 25%

of range)

Diaphragm 316 stainless steel for ranges Material: of 15 psi and below. High strength

cobalt alloy (Duratherm 600) for ranges of 10 psi and above

Housing Material: 316 SS with a Viton® 0-ring Mounting: Stem, wall or pipe

Connection Size: 1/4, 1/2 NPT

Purge & Bleed

Connection:

Standard on top of each pressure

chamber (G% with plug)

Connection

Location: Lower

OPTIONAL FEATURES 316 SS case and ring

Glycerin fill - Standard	(L)
Silicone fill - Optional	(XGV)
Weatherproof/Hermetically	10
sealed case (IP65)	(XLJ)
Static pressure to	(XSP)
3625 psi (ranges <10 psid)	
5801 psi (ranges >10 psid)	
Wall mounting bracket	(XFW)
Pipe mounting bracket	(XTM)
(Available for ranges 5 psid and above.)	
3-way manifold	(X43)
Hastelloy C diaphragm with 316 SS	
housing ⁽¹⁾	(HS)
Hastelloy C diaphragm and housing	(HH)
Ranges 60 psid and above	
NACE compliant	
Electric Warning Contacts(2)	
High and Low	(XED)

Double Low (XEF) Oxygen cleaning (X6B)

(1) Only available with 1450 psi static pressure.

Specify if magnetic or inductive contacts.

Temperature Limits
Process: -20/185°F

Double High

Ambient: -20/185°F Storage: -20/185°F

Viton® is a registered trademark of DuPont Co.

STANDARD RANGE TABLE*			
psid	mBar	bar	I.W.D.
3	40	0.6	10
5	60	1.0	30
10	100	1.6	60
15	160	2.5	100
30	250	4	200
60	400	6	
100		10	
160		16	
200		25	
300			
400			
600			

WEIG	HT (Ibs)	
	100mm	160mm
For ranges ≤5 psid		
Dry	20	21
Liquid Filled	21	22
For ranges ≥10 psid		
Dry	9	10
Liquid Filled	10	11

THIS IS PART OF CRN OF 2805.75

Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program

HOW TO ORDER (Typical example)

10 5503 S S 02L XXX 0/100 psid

Dial Size: 100mm (10), 160mm (16)

Case Type: 5503

Diaphragm: (S) 316 SS

Housing, Socket: (S) 316 SS

Connection Size, Location: ¼ (02), ½ (04), Lower (L)

Options:

Range: 0/100 psid





Type 5503 Differential Pressure Gauge

