

Model 364DD Differential/Gauge

ABB 364 model The common sense pressure transmitter



Best in class total performance

- long term stability of 0.15% for 10 years
- base accuracy of 0.06%

The space saver

- the solution for multiple installations in reduced spaces
- the lightest DP transmitter on the market

Innovative side low pressure connection

- allows easy differential level installation

The common sense construction

- all stainless body and housing
- Hastelloy process diaphragms

The common sense approach to leakage prevention

- one piece stainless steel design process chambers
- gasket free sensor coupling with conventional connections

The user friendly transmitter

- user accessible wiring termination with built-in surge protection
- on board LCD display with intuitive menu navigation
- “easy setup” for quick commissioning
- multilanguage menu selection

General Description

Model 364DD detailed in this data sheet apply for those transmitters which include on high pressure measuring side, a direct mount seal which is integral to the transducer by a short capillary connection inside a protective rigid tube.

This construction forms a standalone single assembly suitable to be mounted to the process by the seal mounting facilities.

By properly selecting the high and low pressure side variant in the ordering codes model 364DD can be in the following versions :

- a) one direct mount seal and one process connection side entry, $1/4$ – 18 NPT or $1/2$ – 14 NPT through adapter; this allows also to connect the other leg (wet or dry) for differential measurement. Alternatively the side without direct mount seal can be selected with filter and plug on the unused entry, leaving it vented for gauge measurement with reference to atmosphere.
- b) one direct mount seal and one remote seal with capillary; the two seals allow again a differential measurement and must be selected of same type/size.

Allowed types of direct mount seal are mainly used for chemical application:

- flush diaphragm flange mounted seal
- extended diaphragm flange mounted seal
- off-line threaded connection seal
- off-line flanged connection seal

These are suitable also for other process applications including food and sanitary, using FDA approved filling, which are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).

Refer to S364X seal data sheet for all data and details relevant to seal element. The following table list the types of standard seal which can be mounted with 364DD transmitters (the mnemonic is used as reference in the compatibility table).

Model	Seal type	Size	Mnemonic
S364A S364E S364G S364R	Flanged flush diaphragm (also Ring Joint and JIS standard)	1- $1/2$ in (ASME RJ only) 2in / DN50 / A50 3-4in / DN80-100 / A80-100	P1.5 P2 P3
	Flanged extended diaphragm	2in / DN50 3in / DN80 4in / DN100	E2 E3 P3
S364T	Threaded off-line	2 $1/2$ in	T2.5
S364M	Flanged off-line	2 $1/2$ in	T2.5
S364S	Union nut Triclamp Cherry Burrel Sanitary	2in / F50 3in / F80 4in	S2 S3 S3
S364W (remote only)	Wafer Wafer food	1- $1/2$ in / DN40 2in / DN50 3in / DN80	P1.5 P2 P3

All following specification data apply for identical characteristics of the two seals when the transmitter has the remote seal in addition to the direct mount one.

Functional Specifications

Range and span limits

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)		Minimum span	Compatibility (allowed seal for 364DD)	
		364DD Direct mount differential	364DD Direct mount gauge		Direct mount seal only	Direct mount and one remote seal (max length in m.)
E	16kPa 160mbar 64inH ₂ O	-16kPa -160mbar -64inH ₂ O	-16kPa -160mbar -64inH ₂ O	0.54kPa 5.4mbar 2.14inH ₂ O	P2 (●), P3 E3 (●) T2.5, S3	P3 (3) E3 (2) (●) S3 (3) (●)
G	65kPa 650mbar 260inH ₂ O	-65kPa -650mbar -260inH ₂ O	-65kPa -650mbar -260inH ₂ O	1.1kPa 11mbar 4.35inH ₂ O	P2, P3 E2 (●), E3 T2.5, S2 (●), S3	P2 (2) (●), P3 (5) E3 (3) T2.5 (2), S3 (4)
H	160kPa 1600mbar 642inH ₂ O	-160kPa -1600mbar -642inH ₂ O	0.07kPa abs 0.7mbar abs 0.5mmHg	2.67kPa 26.7mbar 10.7inH ₂ O	P1.5 P2, P3 E2, E3 T2.5, S2, S3	P1.5 (2) P2 (5), P3 (8) E2 (4), E3 (6) T2.5 (6), S2 (3), S3 (8)
M	600kPa 6bar 87psi	-600kPa -6bar -87psi	0.07kPa abs 0.7mbar abs 0.5mmHg	10kPa 0.1bar 1.45psi	P1.5 P2, P3 E2, E3 T2.5, S2, S3	P1.5 (3), P2 (8), P3 (8) E2 (6), E3 (8) T2.5 (6), S2 (6), S3 (8)
P	2400kPa 24bar 348psi	-2400kPa -24bar -348psi	0.07kPa abs 0.7mbar abs 0.5mmHg	40kPa 0.4bar 5.8psi	P1.5 P2, P3 E2, E3 T2.5, S2, S3	P1.5 (5) P2 (8), P3 (8) E2 (6), E3 (8) T2.5 (6), S2 (6), S3 (8)
Q	8000kPa 80bar 1160psi	-8000kPa -80bar -1160psi	0.07kPa abs 0.7mbar abs 0.5mmHg	134kPa 1.34bar 19.4psi	P1.5 P2, P3 E2, E3 T2.5, S2, S3	P1.5 (5), P2 (8), P3 (8) E2 (6), E3 (8) T2.5 (6), S2 (6), S3 (8)
S	16000kPa 160bar 2320psi	-16000kPa -160bar -2320psi	0.07kPa abs 0.7mbar abs 0.5mmHg	267kPa 2.67bar 38.7psi	P1.5 P2, P3 E2, E3 T2.5	P1.5 (5) P2 (8), P3 (8) E2 (6), E3 (8) T2.5 (6)

The combinations sensor code/seal type marked (●) modify the base accuracy rating and static pressure effect; refer to performance specifications.

Span limits

Maximum span = URL
(can be further adjusted up to ± URL (TD = 0.5) for differential models, within the range limits)

IT IS RECOMMENDED TO SELECT THE TRANSMITTER SENSOR CODE PROVIDING THE TURNDOWN VALUE AS LOWEST AS POSSIBLE TO OPTIMIZE PERFORMANCE CHARACTERISTICS.

Zero suppression and elevation

Zero and span can be adjusted to any value within the range limits detailed in the table as long as:

– calibrated span ≥ minimum span

Damping

Selectable time constant : 0 to 32 s
This is in addition to sensor response time

Turn on time

Operation within specification in less than 1s with minimum damping.

Insulation resistance

> 100MΩ at 1000VDC (terminals to earth)

Operative limits

REFER ALSO TO S364 DATA SHEET FOR POSSIBLE FURTHER LIMITATION DUE TO SEAL VARIANTS AND FOR DATA RELEVANT TO THE POSSIBLE REMOTE SEAL (IF SELECTED ON NEGATIVE SIDE)

Temperature limits °C (°F) :

Ambient (is the operating temperature)

Lower limit: -40°C (-40°F) for sensor codes E to S;
-20°C (-4°F) for LCD indicator

Upper limit: +85°C (+185°F);
+70°C (+158°F) for LCD indicator

Note : For Hazardous Atmosphere applications see the temperature range specified on the certificate/approval relevant to the aimed type of protection

Process

Lower limit (side with 1/4 NPT or 1/2 NPT entry via adapter for 364DD)

– refer to lower ambient limits;

Upper limit (side with 1/4 NPT or 1/2 NPT entry via adapter for 364DD)

– 121°C (250°F);

– 100°C (212°F) for application below atmospheric pressure

The following table show characteristics of fill fluids when used in transmitters with direct mount seal on high pressure side.

FILL FLUIDS (APPLICATION)	OPERATING CONDITIONS			
	Tmax @ Pabs>of	Pmin mbar abs (psia)	Tmax @ P min	Tmin
Silicone oil-DC200 (General purpose)	200 (390) @ 35mbar	0.7 (0.01)	160 (320)	-40 (-40)
Silicone oil-DC704 (High temperature)	250 (480) @ 3.5mbar	0.7 (0.01)	220 (428)	-10 (+14)
Silicone Polymer-SylthermXLT (Low temperature)	100 (212) @ 110mbar	2 (0.03)	20 (68)	-100 (-148)
Vegetable oil-Neobee M-20 (Food-Sanitary) FDA	200 (390) @ 1bar	130 (1.9)	150 (300)	-18 (0)
Glycerin Water (70%) (Food-Sanitary) FDA	93 (200) @ 1bar	1000 (14.5)	93 (200)	-7 (+20)
Mineral oil-MARCOL 82 (Food-Sanitary) FDA	200 (390) @ 200mbar	33 (0.03)	40 (104)	-40 (-40)
Inert – Galden (Oxygen Service)	160 (320) @ 1bar	2 (0.03)	70 (158)	-20 (-4)
Inert – Halocarbon 4.2 (Oxygen Service)	180 (356) @ 400mbar	4 (0.06)	70 (158)	-20 (-4)

Fill fluids with FDA are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).

Limits for gaskets (flange to seal) of S364M and S364T

- Viton: -20°C (-4°F) to 200°C (392°F)

Limits for gaskets of flushing rings

Material	Pressure (max.)	Temperature (max.) (min.)		PxT limit
Garlock	6.9MPa, 69bar, 1000psi	204° C (400° F)	-73° C (-100° F)	250000 (° F x psi)
Graphite	2.5MPa, 25bar, 362psi	380° C (716° F)	-100° C (-148° F)	
PTFE	6MPa, 60bar, 870psi	250° C (482° F)	-100° C (-148° F)	

Storage

Lower limit: -50°C (-58°F); -40°C (-40°F) for LCD indicators

Upper limit: +85°C (+185°F)

Pressure limits

Overpressure limits (without damage to the transmitter)

0.07kPa abs, 0.7mbar abs, 0.01psia to transmitter sensor limit or flange rating of seal whichever is less:

- 16MPa, 160bar, 2320psi for sensor code E
- 20MPa, 200bar, 2900psi for sensor codes G to S
- maximum flange pressure rating (see tables below)

For model S364E flanged seal:

Rating/Class to EN 1092-1	Carbon Steel @ 120° C	AISI 316 Stainless Steel @ 20° C
PN16	16bar	16bar
PN40	40bar	40bar
PN63	63bar	63bar
PN100	100bar	100bar

For model S364A (RF) and S364R (RJ) flanged seal:

Rating/Class to ASME B16.5	Carbon Steel @100° F (38° C)	AISI 316 Stainless Steel @ 100° F (38° C)
Class 150	285psi	275psi
Class 300	740psi	720psi
Class 600	1480psi	1440psi
Class 900	2220psi	2160psi
Class 1500	3705psi	3600psi

For model S364G flanged seal:

Rating/Class to JIS B 2220	Carbon Steel @ 120° C	AISI 316 Stainless Steel @ 120° C
10K	14bar	14bar
20K	36bar	36bar
40K	68bar	68bar

For model S364M off-line flanged seal:

- Class 150 to ASME B16.5: 230psi @100°F (38°C)
- Class 300 to ASME B16.5: 600psi @100°F (38°C)
- PN16-40 to EN 1092-1: 34bar @20°C

For model S364W wafer or S364T off-line threaded connection seal:

- 16MPa, 160bar, 2320psi @20°C (68°F)
(but not greater than the wafer backup flange rating, not supplied).

The pressure limit decreases with increasing temperature above to the specified values as defined for the material, respectively for ASME B16.5, EN 1092-1 or JIS standards.

For model S364S food/sanitary seals:

- 3.8MPa, 38bar, 550psi for 2in Triclamp
- 2.4MPa, 24bar, 350psi for 3in Triclamp
- 1.7MPa, 17bar, 250psi for 4in Triclamp
- 2.5MPa, 25bar, 360psi for F50/F80 Union nut
- 1.9MPa, 19bar, 275psi for Cherry Burrell and 4in Sanitary
- 1MPa, 10bar, 145psi for 4in V-band clamp option
- 0.7MPa, 7bar, 100psi @ 21°C for 4in schedule 5 V-band clamp option

Static pressure

Transmitters for differential pressure model 364DD operates within specifications between the following limits:

- 1.3kPa abs, 13mbar abs, 0.2psia and 20MPa, 200bar, 2900psi (16MPa, 160bar, 2320psi for sensor code E) or flange/fitting rating of seal as above, whichever is less
- 0.07kPa abs, 0.7mbar abs, 0.01psia and 20MPa, 200bar, 2900psi (16MPa, 160bar, 2320psi for sensor code E) or flange/fitting rating of seal as above, whichever is less, using a second seal remote on negative pressure side.

Proof pressure

The transmitter can be exposed without leaking to line pressure of up to 38.5MPa, 385bar, 5585psi or two times the flange/fitting rating of seal, whichever is less. Meet ANSI/ISA-S 82.03 hydrostatic test requirements.

Environmental limits

Electromagnetic compatibility (EMC)

Comply with EN 61000-6-3 for emission and EN 61000-6-2 for immunity requirements and test;

Radiated electromagnetic immunity level: 10V/m
(according to IEC 1000-4-3, EN61000-4-3)

Conducted electromagnetic immunity level : 10V
(according to IEC 1000-4-6, EN 61000-4-6)

Surge immunity level: 4kV
(according to IEC 1000-4-5 EN 61000-4-5)

Fast transient (Burst) immunity level: 4kV
(according to IEC 1000-4-4 EN 61000-4-4)

Humidity

Relative humidity: up to 100% annual average

Condensing, icing: admissible

Vibration resistance

Accelerations up to 2g at frequency up to 1000Hz
(according to IEC 60068-2-6)

Shock resistance

Acceleration: 50g

Duration: 11ms

(according to IEC 60068-2-27)

Wet and dust-laden atmospheres

The transmitter is dust and sand tight and protected against immersion effects as defined by EN 60529 (1989) to IP 67 or by NEMA to 4X.

Hazardous atmospheres

With or without integral display

ATEX/ZELM approval

INTRINSIC SAFETY (Category 1): (code E1)

II 1 GD T50°C, EEx ia IIC T6 (-50°C ≤ Ta ≤ +40°C) respectively

II 1 GD T95°C, EEx ia IIC T4 (-50°C ≤ Ta ≤ +85°C) or

II 1/2 GD T50°C, EEx ia IIC T6 (-50°C ≤ Ta ≤ +40°C) respectively

II 1/2 GD T95°C, EEx ia IIC T4 (-50°C ≤ Ta ≤ +85°C)

EXPLOSION PROOF (Category 2): (code E2)

II 1/2 GD T50°C, EEx d IIC T6 IP67 T85°C (-50°C ≤ Ta ≤ +75°C)

TYPE "N" (Category 3): (included in code EW with E1 and E2)

II 3 GD T50°C, EEx nL IIC T6 IP67 (-50°C ≤ Ta ≤ +40°C) or

II 3 GD T95°C, EEx nL IIC T4 IP67 (-50°C ≤ Ta ≤ +85°C)

CANADIAN STANDARDS ASSOCIATION (code E4)

FACTORY MUTUAL (code E6)

– Explosionproof: Class I, Div. 1, Groups A, B, C, D

– Dust ignitionproof : Class II, Div. 1, Groups E, F, G

– Suitable for : Class II, Div. 2, Groups F, G; Class III, Div. 1, 2

– Nonincendive: Class I, Div. 2, Groups A, B, C, D

– Intrinsically safe: Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G

AEx ia IIC T6/T4, Zone 0 (FM)

COMBINED ATEX, FM and CSA (code EN)

combination of E1, E2, E4 and E6

COMBINED ATEX (code E7)

combination of E1 and E2

COMBINED NEPSI (code EP)

NEPSI approval

INTRINSIC SAFETY/CHINA:

Ex ia IIC T4-T6

FLAMEPROOF/CHINA:

Ex d IIC T6

TYPE "N"/CHINA:

EEx nL IIC T4-T6

GOST (Russia) and GOST (Kazakhstan) based on ATEX

Electrical Characteristics and Options

HART digital communication and 4 to 20mA output

Power Supply

The transmitter operates from 10.5 to 42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42VDC).

For EEx ia and other intrinsically safe approval power supply must not exceed 30VDC.

Minimum operating voltage is 15.3VDC if on terminals for external meter neither link nor remote indicator is present.

Ripple

20mV max on a 250Ω load as per HART specifications

Load limitations

4 to 20mA and HART total loop resistance :

$$R(k\Omega) = \frac{\text{Supply voltage} - \text{min. operating voltage (VDC)}}{22.5}$$

A minimum of 250Ω is required for HART communication.

Optional indicators

Integral display

Wide screen LCD, 128 x 64 pixel,
52.5 x 27.2mm (2.06 x 1.07in) dot matrix.

Four keys for configuration and management of device.

Easy setup for quick commissioning.

User selectable application-specific visualizations.

Totalized and instantaneous flow indication.

Display also indicates in/out transfer function, static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

Output signal

Two-wire 4 to 20mA, user-selectable for linear or square root output, power of ³/₂ or ⁵/₂, 5th order or two 2nd order switching point selectable programmable polynomial output.

Low flow cut-off facility.

HART® communication provides digital process variable (% , mA or engineering units) superimposed on 4 to 20mA signal, with protocol based on Bell 202 FSK standard.

Output current limits (to NAMUR standard)

Low saturation: 3.8mA (field configurable from 3.7 to 4mA)

High saturation: 20.5mA (field configurable from 20 to 22.5mA)

Alarm current

Low alarm current: 3.7mA (field configurable from 3.7 to 4mA)

High alarm current: 22mA (field configurable from 20 to 22.5mA)

Factory setting: high alarm current

Performance specifications

Stated at reference condition to IEC 60770 ambient temperature of 20°C (68°F), relative humidity of 65%, atmospheric pressure of 1013hPa (1013mbar), mounting position with vertical diaphragm and zero based range for transmitter with isolating diaphragms in Hastelloy and silicone oil fill and digital trim values equal to span end points, in linear mode.

Unless otherwise specified, errors are quoted as % of span.

Some performance data are affected by the actual turndown (TD) as ratio between Upper Range Limit (URL) and calibrated span.

IT IS RECOMMENDED TO SELECT THE TRANSMITTER SENSOR CODE PROVIDING THE TURNDOWN VALUE AS LOWEST AS POSSIBLE TO OPTIMIZE PERFORMANCE CHARACTERISTICS.

Accuracy rating

% of calibrated span, including combined effects of terminal based linearity, hysteresis and repeatability.

– ±0.06% for TD from 1:1 to 10:1

(±0.075% for sensor code E for TD from 1:1 to 5:1;

±0.075% for sensor code Q, S for TD from 1:1 to 10:1)

– ±0.006% × $\frac{\text{URL}}{\text{Span}}$ for TD from 10:1 to 20:1

(±0.015% × $\frac{\text{URL}}{\text{Span}}$ for sensor code E for TD from 1:1 to 20:1

±0.0075% × $\frac{\text{URL}}{\text{Span}}$ for sensor code Q, S for TD from 10:1 to 20:1)

Multiply the values by 1.5 for sensor/seal combination marked (●) and for transmitter with direct mount seal plus one remote seal.

Operating influences

Temperature effects

per 20K (36 °F) ambient temperature change on transmitter sensor between the limits of –20°C to +65°C (–4 to +150°F) :

Transmitter effect:

– ±(0.02% URL + 0.026% span) for TD up to 10:1 (5:1 for sensor code E)

Direct mount seal additional effect:

Seal type size	Error		
	kPa	mbar	inH ₂ O
Flush 1-1/2in (RJ only)	0.52	5.2	2.09
Flush 2in/DN50/A50	0.12	1.2	0.48
Flush 3-4in/DN80-100/A80-100	0.02	0.2	0.08
Extended 2in/DN50	0.2	2	0.8
Extended 3in/DN80	0.06	0.6	0.24
Extended 4in/DN100	0.02	0.2	0.08
Off-line 2-1/2in	0.10	1	0.4
Sanitary 2in/F50	0.9	9	3.6
Sanitary 3in/F80	0.02	0.2	0.08

per 20K (36°F) process temperature change on seal diaphragm between the process operating temperature limits

Seal type size	Error		
	kPa	mbar	inH ₂ O
Flush 1-1/2in (RJ only)	0.85	8.5	3.4
Flush 2in/DN50/A50	0.32	3.2	1.28
Flush 3-4in/DN80-100/A80-100	0.1	1	0.4
Extended 2in/DN50	0.35	3.5	1.4
Extended 3in/DN80	0.17	1.7	0.68
Extended 4in/DN100	0.1	1	0.4
Off-line 2-1/2in	0.25	2.5	1
Sanitary 2in/F50	0.9	9	3.6
Sanitary 3in/F80	0.06	0.6	0.24

Static pressure (zero errors can be calibrated out at line pressure)

seal/transmitter sensor effect applicable for differential measurement per 2MPa, 20bar or 290psi and for TD up to 10:1 (5:1 for sensor code E)

Model 364DD direct mount seal only

– zero error: ±0.15% of URL

– span error: ±0.15% of reading

Model 364DD direct mount plus remote seal

– zero error: ±0.20% of URL

– span error: ±0.20% of reading

Multiply by 1.5 the errors for sensor/seal combinations marked (●).

Supply voltage

Within voltage/load specified limits the total effect is less than 0.005% of URL per volt.

Load

Within load/voltage specified limits the total effect is negligible.

Electromagnetic field

Total effect : less than 0.06% of span from 80 to 1000MHz and for field strengths up to 10V/m when tested with unshielded conduit and grounding, with or without meter.

Common mode interference

No effect from 100Vrms @ 50Hz, or 50VDC

Mounting position

Rotations in plane of transmitter diaphragm have negligible effect. A tilt to 90° from vertical causes a zero shifts up to 0.6kPa, 6mbar or 2.4inH₂O, which can be corrected with the zero adjustment. No span effect.

Vibration effect

±0.10% of URL (according to IEC 61298-3)

Physical Specification

(Refer to ordering information sheets for variant availability related to specific model or versions code)

Materials

Low pressure side process isolating diaphragms (*)

Hastelloy C276™ on AISI 316 L ss seat (NACE)

A remote seal can be selected with required diaphragm material (refer to high pressure side)

Low pressure side process connection, adapters, plugs and drain/vent valves (*)

AISI 316 L ss (NACE)

Low pressure side bolts (for adapter only, if selected)

AISI 316 ss bolts Class A4-50 per UNI 7323 (ISO 3506), in compliance with NACE MR0175 Class II.

Low pressure side gasket (for adapter only, if selected) (*)

PTFE

High pressure side process diaphragm (direct mount seal) (*)

AISI 316 L ss; Hastelloy C276™; Hastelloy C2000™; Inconel 625; Tantalum;
AISI 316 L ss or Hastelloy C276™ with anti-stick coating;
AISI 316 L ss with anti-corrosion coating; AISI 316 L ss gold plated;
Superduplex ss (UNS S32750 to ASTM SA479);
Diaflex (AISI with anti-abrasion treatment).

Extension material

AISI 316 L ss (also for Diaflex and gold plated diaphragms);
Hastelloy C276™;
AISI 316 L ss or Hastelloy C276™ with coating same as diaphragm.

High pressure side fill fluid (direct mount seal)

Silicone oil-DC200™; Silicone oil-DC704™; Inert-Galden™;
Inert-Halocarbon™ 4.2; Silicone Polymer-Syltherm XLT™;
Vegetable oil-Neobee M-20™; Glycerin Water;
Mineral oil-MARCOL 82™.

Sensor fill fluid

Silicone oil (DC200™)

Electronic/sensor housing and covers

AISI 304 ss; AISI 316 L ss.

Covers O-ring

Buna N

Tagging

AISI 316 L ss data/certification plate welded to the transmitter

Calibration

Standard: at maximum span, zero based range, P2=HIGH, P1=LOW, at ambient temperature and pressure;

Optional: at specified range and ambient conditions.

Optional extras

Display

4-position (at 90°) user rotatable

Additional customer plate (option code I2)

AISI 316 ss plate wired-on to the transmitter for customer data up to a maximum of 32 characters and spaces per four lines for customizable details.

Test Certificates (test, design, calibration, material traceability)

Tag and manual language

Electrical connection metal plug

One stainless steel IP67 plug can be supplied on request, replacing one of the temporary plastic plug.

Process connections

Via adapter: 1/4 – 18 NPT or 1/2 – 14 NPT side entry
fixing threads: 7/16 – 20 UNF at 41.3mm centre distance
on seal side (refer to drawings for details)

Flush diaphragm flanged seal (**):
2in or 3in ASME 150 to 1500 RF; 4in ASME 150-300 RF;
1-1/2in, 2in or 3in ASME 150 to 1500 RJ;
DN50 or DN80 EN PN16–40, PN63–100;
DN100 EN PN16–40;
A50 or A80 Class 10K, 20K, 40K
A100 Class 10K, 20K.

Extended diaphragm flanged seal (**):
2in, 3in or 4in ASME 150 - 300 RF;
DN50, DN80 or DN100 EN PN16 – 40.

Off-line flanged connection seal (***):
1/2in, 1in or 1-1/2in hole connection, ASME CL150-300;
DN25 or DN40, EN PN16-40.

Off-line threaded connection seal:
1/4in, 1/2in, 3/4in, 1in or 1-1/2in NPT thread.

Food/Sanitary seal

Triclamp: 2in, 3in or 4in;
Union nut: F50 or F80 to DIN 11851;
Cherry Burrell: 2in, 3in or 4in;
Sanitary: 4in flush diaphragm or 4in extended (2in, 4in or 6in) diaphragm.

Wafer seal (remote only):
1 1/2in, 2in or 3in to ASME;
DN40, DN50 or DN80 to EN.

Gasket seat finish:
smooth (ASME, EN or JIS): 0.8µm (Ra);
serrated (ASME or JIS): 3.2 to 6.3µm (Ra);
serrated (EN 1092-1 Type B1, up to PN40): 3.2 to 12.5µm (Ra);
serrated (EN 1092-1 Type B2, PN63-100): 0.8 to 3.2µm (Ra).

Electrical connections

Two 1/2 – 14 NPT or M20x1.5 threaded conduit entries, direct on housing.

Terminal block

Three terminals for signal/external meter wiring up to 2.5mm² (14AWG)

Grounding

Internal and external 6mm² (10AWG) ground termination points are provided.

Mounting position

Transmitter can be mounted in any position.

Mass (without options)

7kg to 50kg approx (15 to 110lb) according to specified seal(s) options; Add 650g (1.5lb) for packing.

Packing

Carton.

Configuration

Transmitter with HART communication and 4 to 20 mA

Standard configuration

Transmitters are factory calibrated from 0 to +URL. If required calibrated range and tag number are stamped on the tag plate. If a calibration range and tag data are not specified, the transmitter will be supplied with the plate left blank and configured as follows:

Pressure polarity	P2 set as high pressure side
Engineering Unit	kPa
4 mA	Zero
20 mA	Upper Range Limit (URL)
Output	Linear
Damping	1 sec.
Transmitter failure mode	Upscale
Software tag characters	Blank
Optional LCD integral display	Input pressure (linear) in calibration engineering unit plus analog output after transfer function in percentage on bargraph

Any or all the above configurable parameters, including Lower range-value and Upper range-value which must be the same unit of measure, can be easily changed using the HART hand-held communicator or by a PC running the configuration software SMART VISION with DTM for 2600T. The transmitter database is customized with specified flange type and material, O-ring and drain/vent materials and meter code option. Custom configuration (option).

The following data may be specified in addition to the standard configuration parameters:

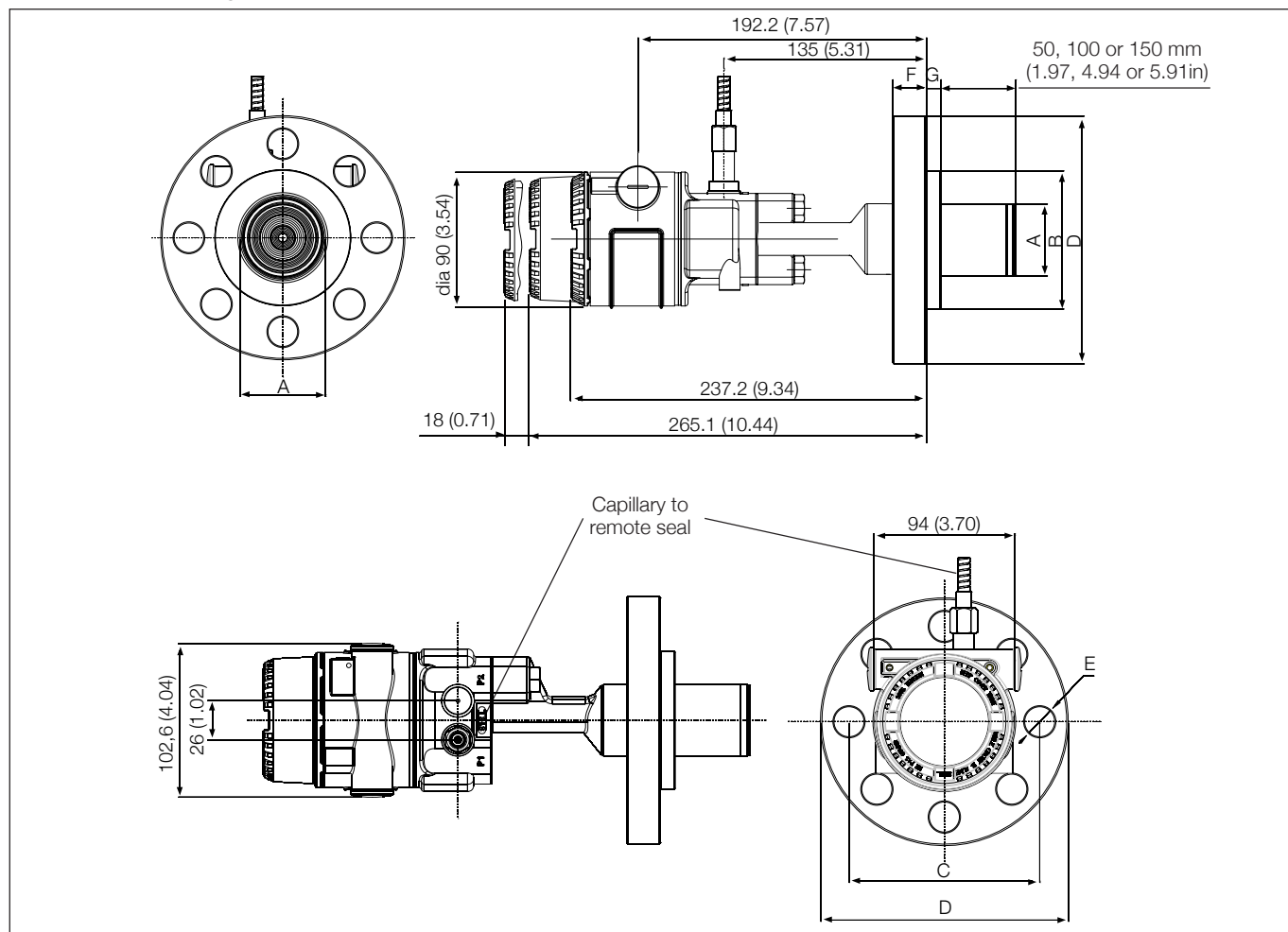
Descriptor	16 alphanumeric characters
Message	32 alphanumeric characters
Date	Day, month, year

(*) Wetted parts of the transmitter.

(**) Bolts and nuts, gasket and mating flange supplied by customer.

(***) Gasket to process supplied by customer.

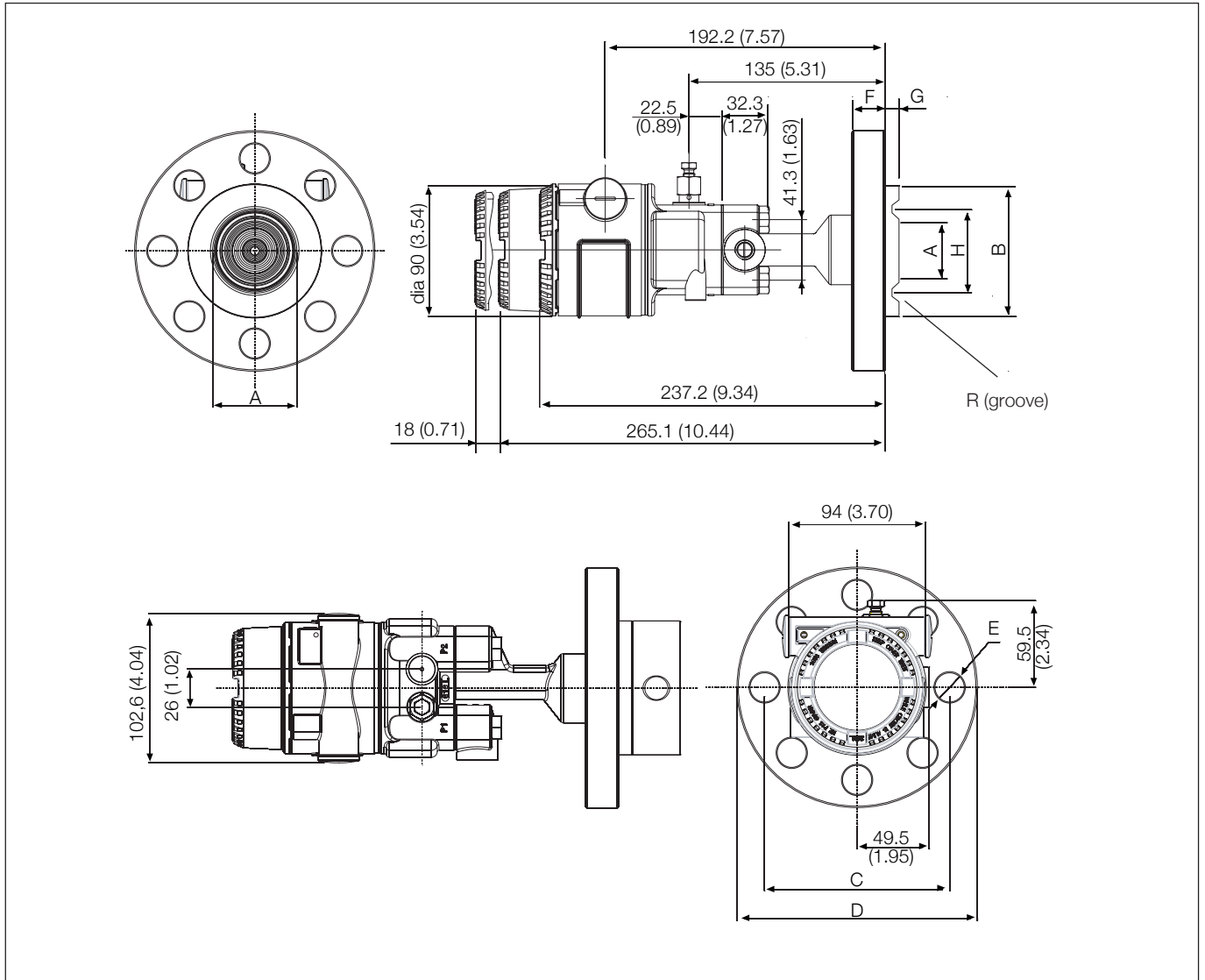
364DD with direct mount seal S364A/S364E flanged Raised Face extended diaphragm and capillary for remote seal on negative connection



Size/Rating	Dimensions mm (in)									N° of holes
	A (dia)			B (dia)	C (dia)	D (dia)	E (dia)	F	G	
	extended diaphragm	flush diaphragm	flushing ring internal dia							
DN50 EN PN16	48 (1.9)	60 (2.36)	62 (2.44)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	20 (0.79)	9.5 (0.37)	4
DN50 EN PN40	48 (1.9)	60 (2.36)	62 (2.44)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	20 (0.79)	9.5 (0.37)	4
DN50 EN PN63	NA	60 (2.36)	62 (2.44)	102 (4.02)	135 (5.31)	180 (7.08)	22 (0.86)	26 (1.02)	9.5 (0.37)	4
DN50 EN PN100	NA	60 (2.36)	62 (2.44)	102 (4.02)	145 (5.71)	195 (7.67)	26 (1.02)	28 (1.1)	9.5 (0.37)	4
DN80 EN PN16	72 (2.83)	89 (3.5)	92 (3.62)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	20 (0.79)	9.5 (0.37)	8
DN80 EN PN40	72 (2.83)	89 (3.5)	92 (3.62)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	24 (0.94)	9.5 (0.37)	8
DN80 EN PN63	NA	89 (3.5)	92 (3.62)	138 (5.43)	170 (6.7)	215 (8.46)	22 (0.86)	28 (1.1)	9.5 (0.37)	8
DN80 EN PN100	NA	89 (3.5)	92 (3.62)	138 (5.43)	180 (7.08)	230 (9.05)	26 (1.02)	32 (1.26)	9.5 (0.37)	8
DN100 EN PN16	94 (3.7)	89 (3.5)	92 (3.62)	158 (6.22)	180 (7.08)	220 (8.66)	18 (0.71)	20 (0.79)	9.5 (0.37)	8
DN100 EN PN40	94 (3.7)	89 (3.5)	92 (3.62)	162 (6.38)	190 (7.48)	235 (9.25)	22 (0.86)	24 (0.94)	9.5 (0.37)	8

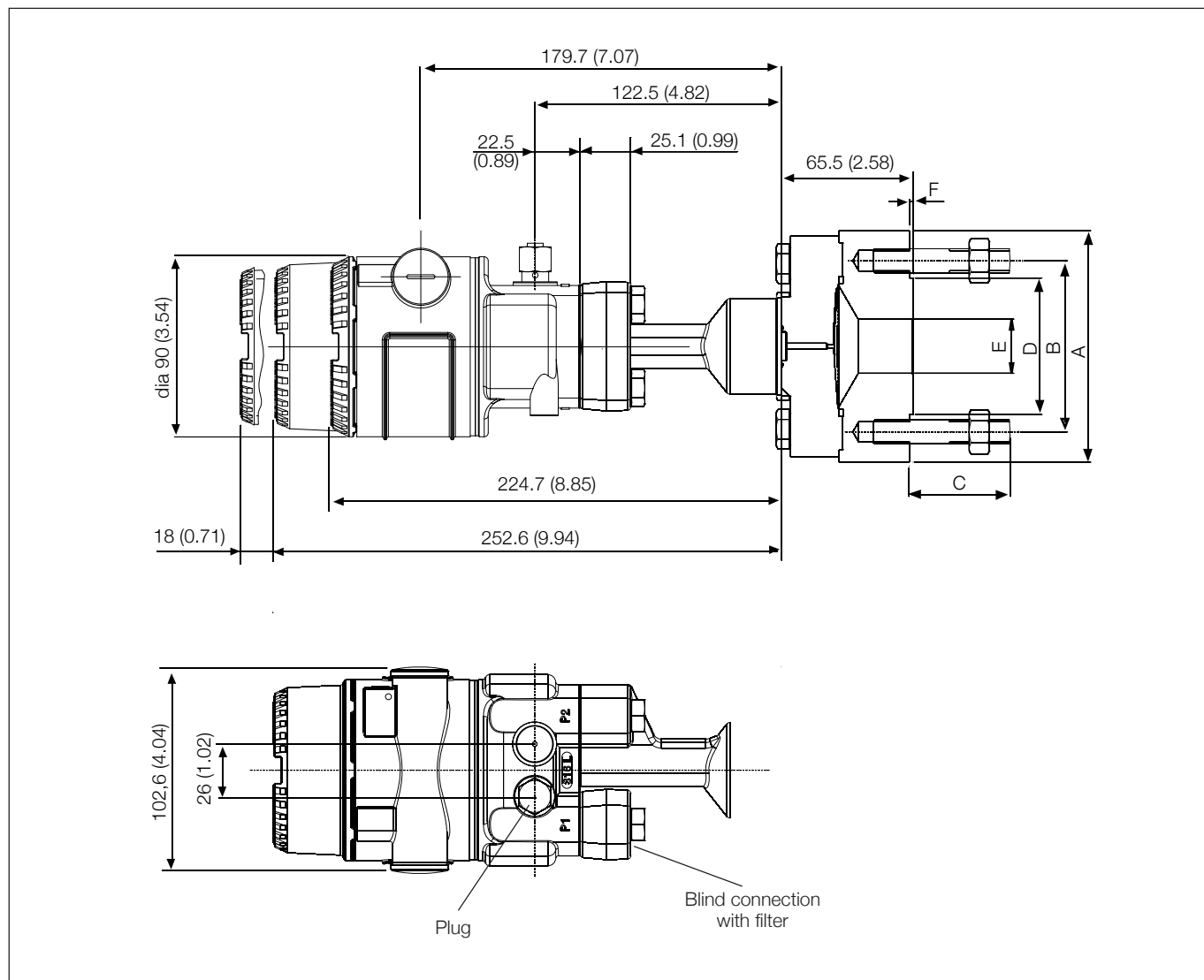
Size/Rating	Dimensions mm (in)							N° of holes
	A (dia) flush diaphragm	B (dia)	C (dia)	D (dia)	E (dia)	F	G	
A50 Class 10K	60 (2.36)	96 (3.78)	120 (4.72)	155 (6.1)	15 (0.59)	16 (0.63)	9.5 (0.37)	4
A50 Class 20K	60 (2.36)	96 (3.78)	120 (4.72)	155 (6.1)	19 (0.75)	18 (0.71)	9.5 (0.37)	4
A50 Class 40K	60 (2.36)	104.3 (4.11)	130 (5.12)	165 (6.5)	19 (0.75)	26 (1.02)	9.5 (0.37)	8
A80 Class 10K	89 (3.5)	126 (4.96)	150 (5.91)	185 (7.28)	15 (0.59)	18 (0.71)	9.5 (0.37)	8
A80 Class 20K	89 (3.5)	132 (5.2)	160 (6.3)	200 (7.87)	23 (0.91)	22 (0.87)	9.5 (0.37)	8
A80 Class 40K	89 (3.5)	139.4 (5.49)	170 (6.69)	210 (8.27)	23 (0.91)	32 (1.26)	9.5 (0.37)	8
A100 Class 10K	89 (3.5)	151 (5.94)	175 (6.89)	210 (8.27)	19 (0.75)	18 (0.71)	9.5 (0.37)	8
A100 Class 20K	89 (3.5)	160 (6.3)	185 (7.28)	225 (8.86)	23 (0.91)	24 (0.94)	9.5 (0.37)	8

364DD with direct mount seal S364R flanged Ring Joint flush diaphragm and threaded side entry on negative connection



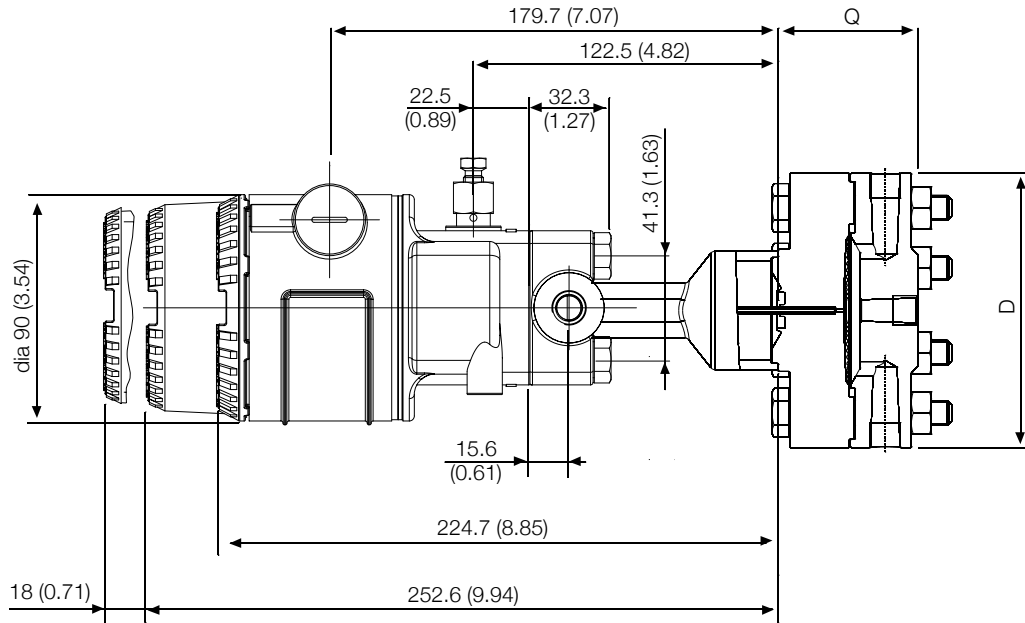
Size/Rating	Dimensions mm (in)								R	N° of holes
	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	H (dia)		
1-1/2in ASME CL 150	48 (1.89)	83 (3.27)	98.6 (3.88)	127 (5)	15.75 (0.62)	17.5 (0.69)	17.3 (0.68)	65.1 (2.56)	R19	4
1-1/2in ASME CL 300	48 (1.89)	90 (3.54)	114.3 (4.5)	155.5 (6.12)	22.35 (0.88)	20.6 (0.81)	17.3 (0.68)	68.3 (2.69)	R20	4
1-1/2in ASME CL 600	48 (1.89)	90 (3.54)	114.3 (4.5)	155.5 (6.12)	22.35 (0.88)	22.4 (0.88)	17.3 (0.68)	68.3 (2.69)	R20	4
1-1/2in ASME CL 900/1500	48 (1.89)	92 (3.62)	124 (4.88)	177.8 (7)	28.45 (1.12)	31.8 (1.25)	20.8 (0.82)	68.3 (2.69)	R20	4
2in ASME CL 150	60 (2.36)	102 (4.02)	120.65 (4.75)	152.4 (6)	19.05 (0.75)	19.05 (0.75)	17.3 (0.68)	82.6 (3.25)	R22	4
2in ASME CL 300	60 (2.36)	108 (4.25)	127 (5)	165.1 (6.5)	19.05 (0.75)	22.35 (0.88)	17.3 (0.68)	82.6 (3.25)	R23	8
2in ASME CL 600	60 (2.36)	108 (4.25)	127 (5)	165.1 (6.5)	19.05 (0.75)	25.4 (1)	17.3 (0.68)	82.6 (3.25)	R23	8
2in ASME CL 900/1500	60 (2.36)	124 (4.88)	165 (6.5)	215.9 (8.5)	25.4 (1)	38.1 (1.5)	20.8 (0.82)	95.3 (3.75)	R24	8
3in ASME CL 150	89 (3.5)	133 (5.24)	152.4 (6)	190.5 (7.5)	19.05 (0.75)	23.87 (0.94)	17.3 (0.68)	114.3 (4.5)	R29	4
3in ASME CL 300	89 (3.5)	146 (5.75)	168.15 (6.62)	209.55 (8.25)	22.35 (0.88)	28.44 (1.12)	17.3 (0.68)	123.8 (4.87)	R31	8
3in ASME CL 600	89 (3.5)	146 (5.75)	168.15 (6.62)	209.55 (8.25)	22.35 (0.88)	31.75 (1.25)	17.3 (0.68)	123.8 (4.87)	R31	8
3in ASME CL 900	89 (3.5)	155 (6.10)	190.5 (7.5)	241.3 (9.5)	25.4 (1)	38.1 (1.50)	20.8 (0.82)	123.8 (4.87)	R31	8
3in ASME CL 1500	89 (3.5)	168 (6.61)	203.2 (8)	266.7 (10.5)	31.75 (1.25)	47.8 (1.88)	20.8 (0.82)	136.5 (5.37)	R35	8

364DD with direct mount seal S364M off-line flanged and blind negative connection (filter and plug fitted for gauge measurement)



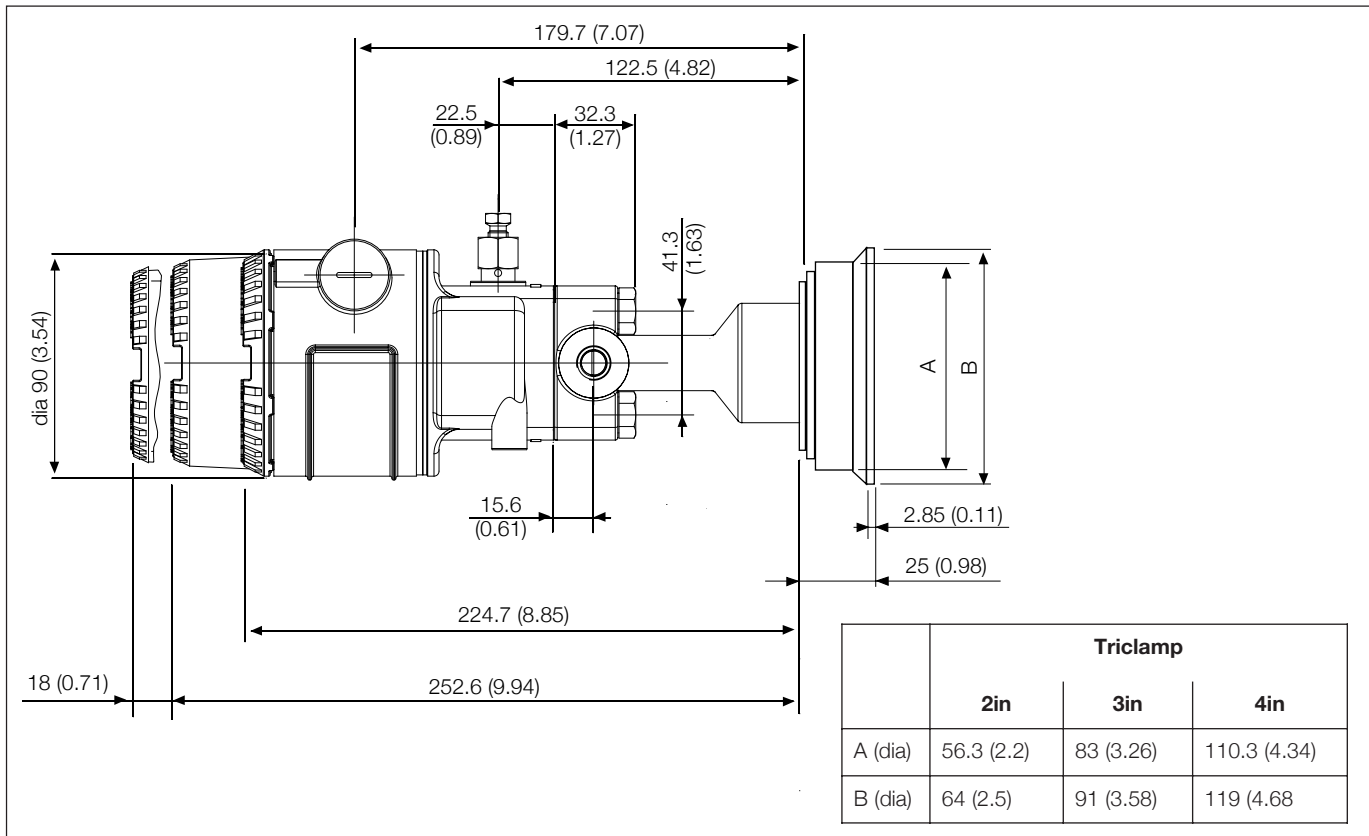
Connection		Dimensions mm (in)						
Size	Standard	A (dia)	B (dia)	C (4 studs)		D (dia)	E (dia)	F
				Length	Thread			
1/2in	ASME CL 150	110 (4.33)	60.5 (2.38)	39 (1.53)	1/2in - 13 UNC	35.1 (1.38)	15.8 (0.62)	1.6 (0.06)
	ASME CL 300	110 (4.33)	66.5 (2.62)	39 (1.53)	1/2in - 13 UNC			
1in	ASME CL 150	110 (4.33)	79.4 (3.12)	39 (1.53)	1/2in - 13 UNC	50.8 (2)	26.7 (1.05)	1.6 (0.06)
	ASME CL 300	124 (4.88)	88.9 (3.5)	51 (2)	5/8in - 11 UNC			
1 1/2in	ASME CL 150	127 (5)	98.4 (3.87)	39 (1.53)	1/2in - 13 UNC	73 (2.87)	41 (1.61)	1.6 (0.06)
	ASME CL 300	155 (6.1)	114.3 (4.5)	57 (2.24)	3/4in - 10 UNC			
DN 25	EN PN 16-40	115 (4.52)	85 (3.34)	42 (1.65)	M12	68 (2.67)	28.5 (1.12)	2 (0.07)
DN 40	EN PN 16-40	150 (5.9)	110 (4.33)	48 (1.89)	M16	88 (3.46)	43.1 (1.69)	3 (0.12)

364DD with direct mount seal S364T off-line threaded and threaded side entry on negative connection

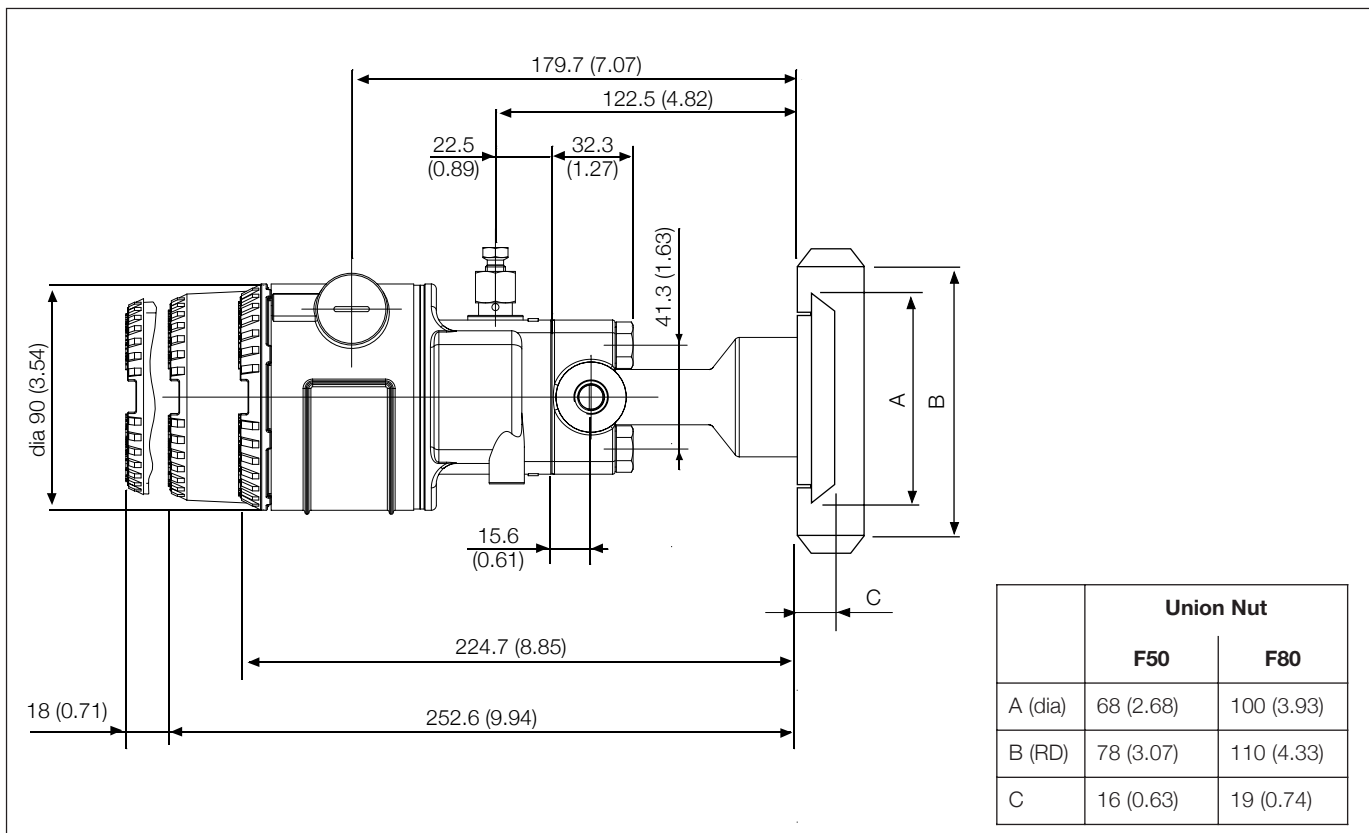


Size	Dimensions mm (in)	
	D (dia)	Q
1/4in NPT	109.2 (4.3)	53.3 (2.1)
1/2in NPT	109.2 (4.3)	53.3 (2.1)
3/4in NPT	109.2 (4.3)	63.5 (2.5)
1in NPT	109.2 (4.3)	63.5 (2.5)
1 1/2in NPT	109.2 (4.3)	63.5 (2.5)

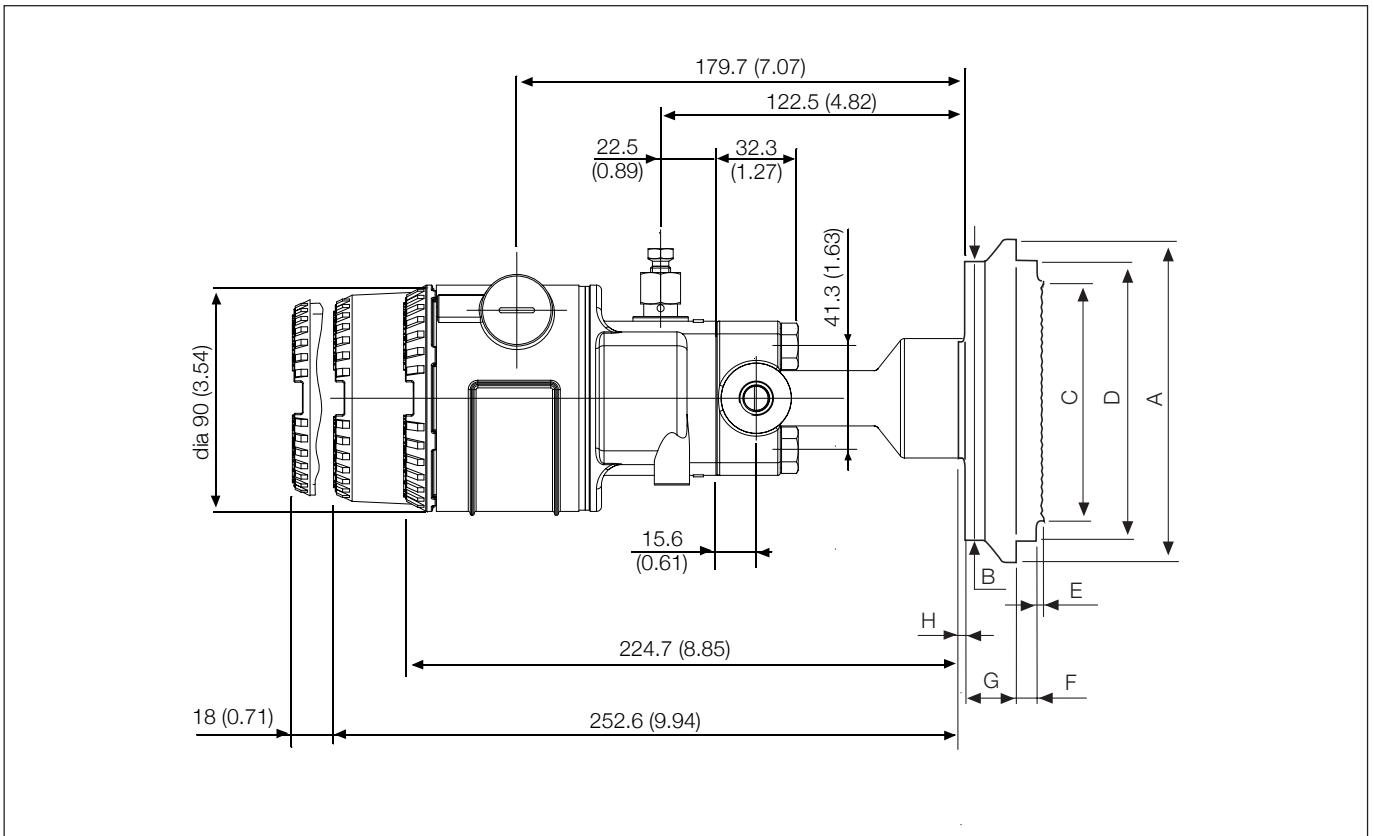
364DD with direct mount S364S Triclamp seal and threaded side entry on negative connection



364DD with direct mount S364S Union Nut seal and threaded side entry on negative connection

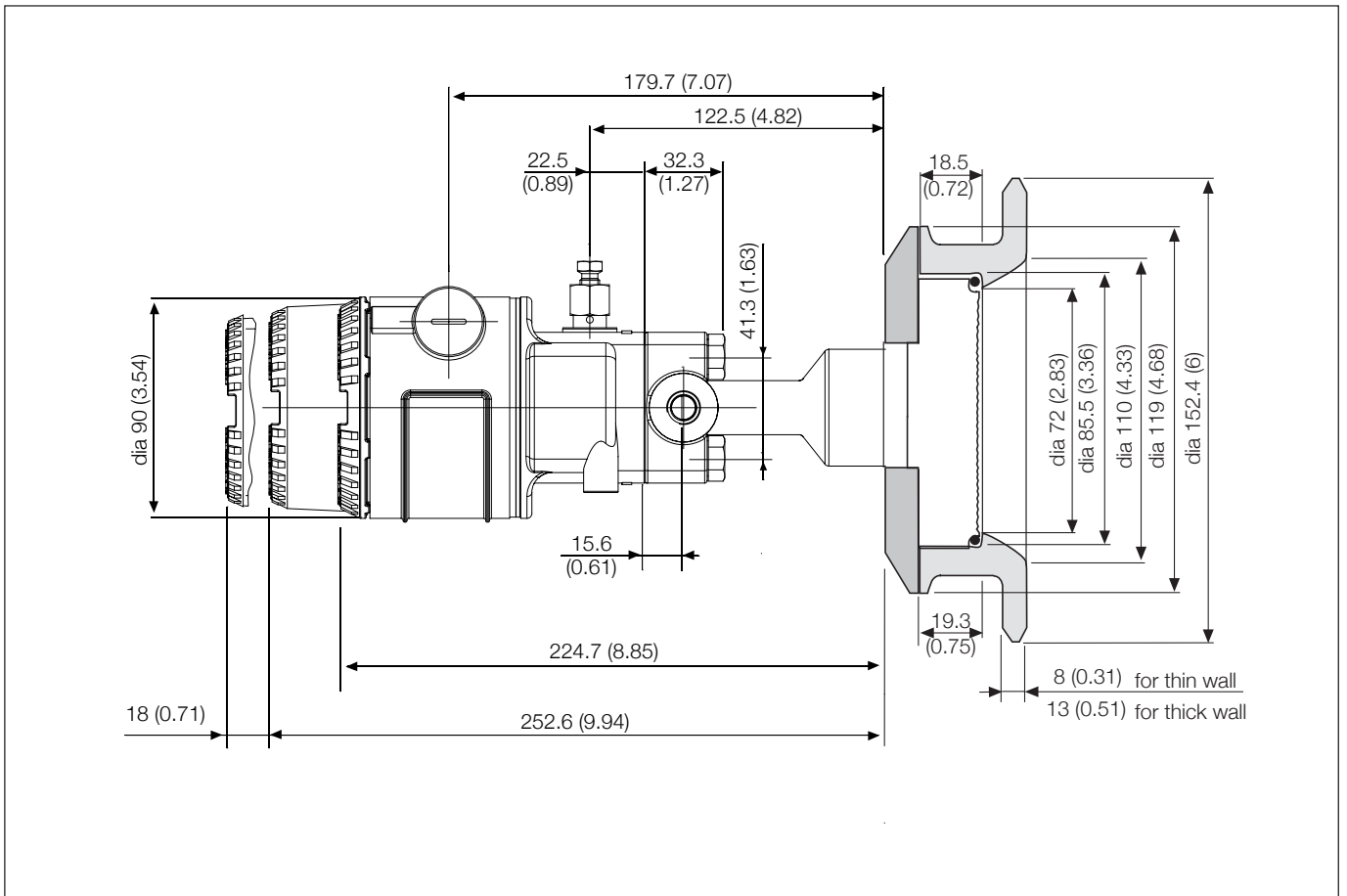


364DD with direct mount S364S Cherry Burrell seal and threaded side entry on negative connection

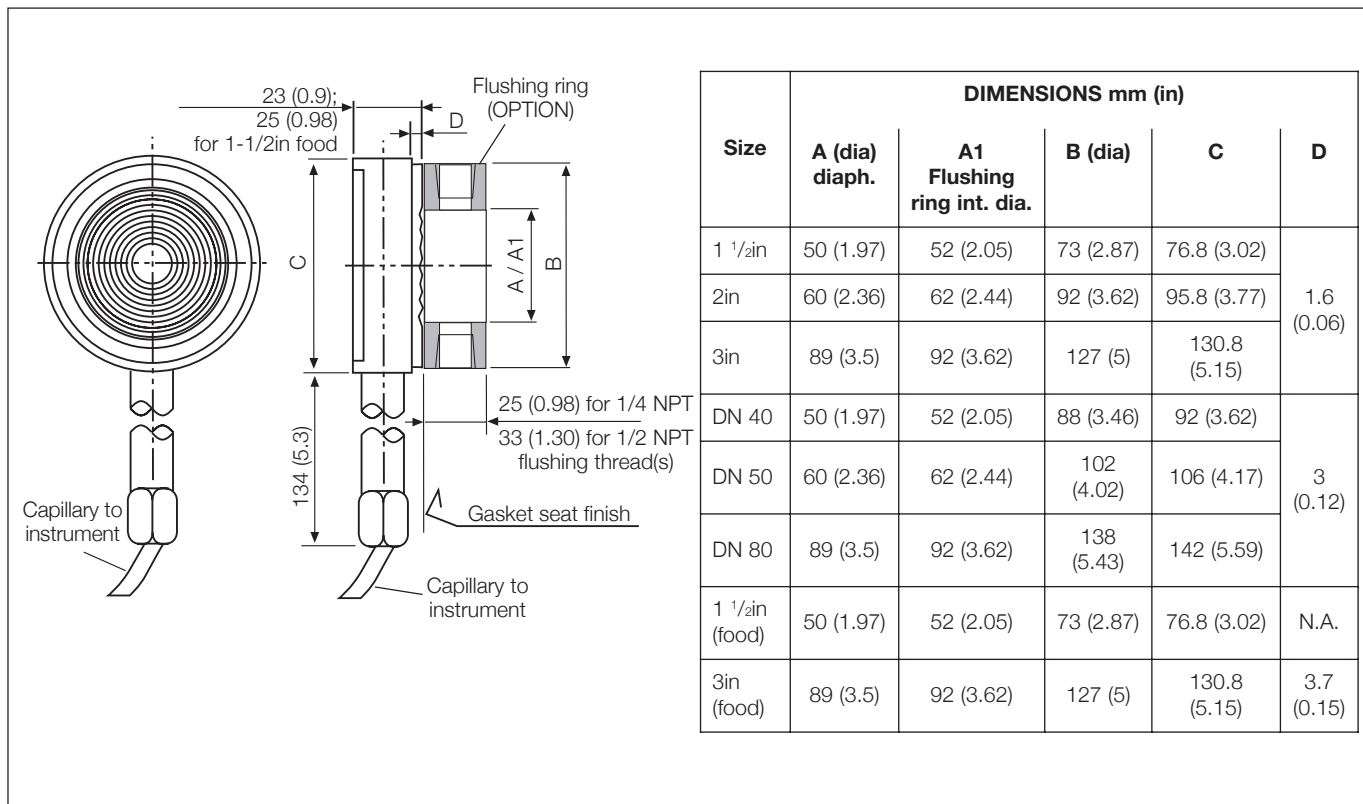


Size	DIMENSIONS mm (in)							
	A (dia)	B (dia)	C (dia)	D (dia)	E	F	G	H
2in	67 (2.64)	56 (2.2)	42 (1.65)	57(2.24)	3.2 (0.13)	6.5 (0.26)	12.5 (0.49)	3 (0.12)
3in	98.4 (3.87)	81 (3.19)	72.42 (2.85)	83.8 (3.3)	2.4 (0.09)	7.9 (0.31)	15 (0.59)	3 (0.12)
4in	124 (4.88)	111.25 (4.38)	72.42 (2.85)	109.3 (4.3)	2.4 (0.09)	7.9 (0.31)	15 (0.59)	3 (0.12)

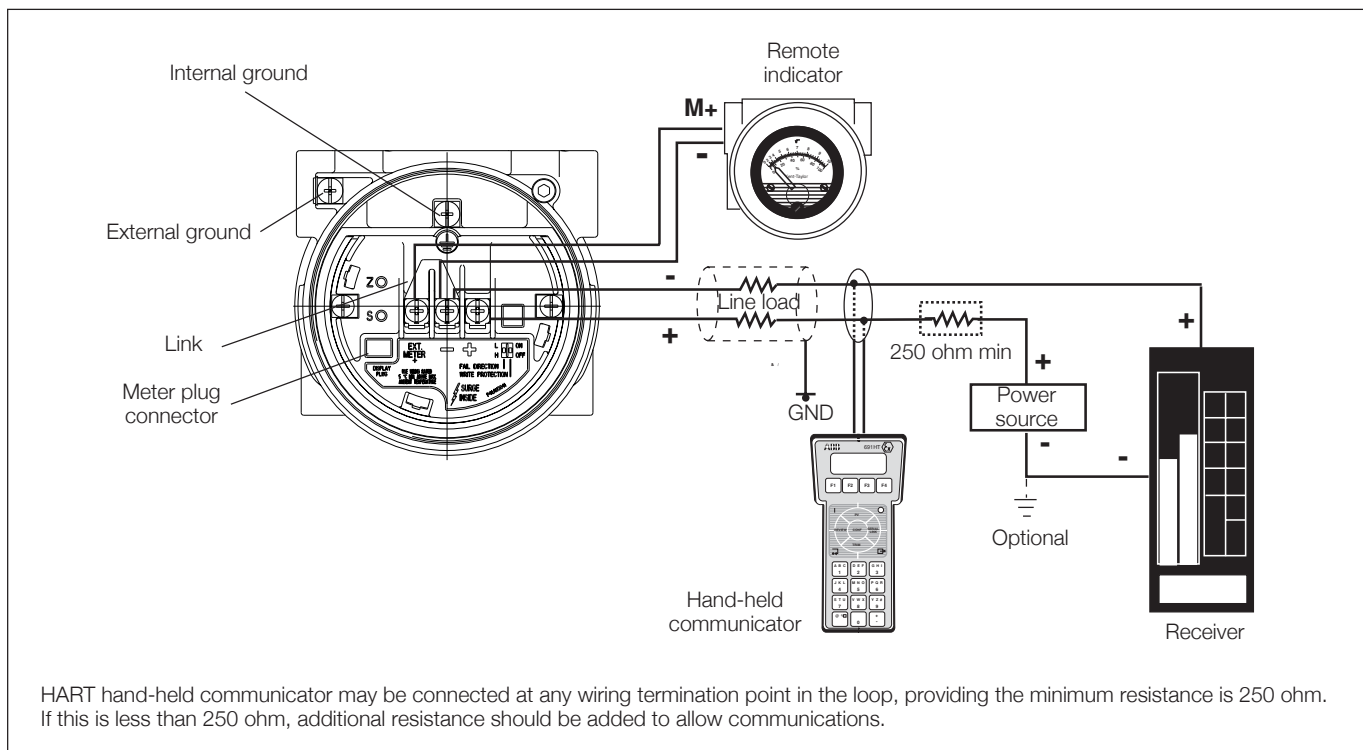
364DD with direct mount S364S Sanitary Flush seal



S364W Model Wafer Remote Seal



Electrical connections



BASIC ORDERING INFORMATION model 364DD Differential Pressure Transmitters

Select one character or set of characters from each category and specify complete catalog number.

Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL – 1 st to 5 th characters			X	S	X	X	0	X	X
Differential Pressure Transmitter with direct mount seal – BASE ACCURACY 0.06%			3	6	4	D	D		
SENSOR - Span limits – 6 th character									
0.54 and 16kPa	5.4 and 160mbar	2.14 and 64inH ₂ O		E					
1.1 and 65kPa	11 and 650mbar	4.35 and 260inH ₂ O		G					
2.67 and 160kPa	26.7 and 1600mbar	10.7 and 642inH ₂ O		H					
10 and 600kPa	0.1 and 6bar	1.45 and 87psi		M					
40 and 2400kPa	0.4 and 24bar	5.8 and 348psi		P					
134 and 8000kPa	1.34 and 80bar	19.4 and 1160psi		Q					
267 and 16000kPa	2.67 and 160bar	38.7 and 2320psi		S					
Use code – 7 th character								S	
Diaphragm material / Fill fluid (wetted parts) – 8 th character									
Hastelloy C276™ on AISI seat	Silicone oil (one direct mount seal to be quoted separately)							H	
Hastelloy C276™ on AISI seat	Silicone oil (NOT WETTED) - (two seals to be quoted separately: one direct mount and one remote)							R	
Process connection material and connection (wetted parts) – 9 th character									
AISI 316 L ss for two seals construction (one direct, one remote) - NOT WETTED							(Note 1)	R	
AISI 316 L ss (low pressure connection blind with filter and plug for gauge measure) - NOT WETTED							(Note 2)	1	
AISI 316 L ss 1/4 - 18 NPT-f / through adapter - SIDE ENTRY (low pressure connection provided with drain/vent valve)							(Note 2)	4	
AISI 316 L ss 1/2 - 14 NPT-f / through adapter - SIDE ENTRY (low pressure connection provided with drain/vent valve)							(Note 2)	5	
Bolts/Gasket (wetted parts) – 10 th character									
None for PROCESS CONNECTION code R or 1									0
AISI 316 ss (NACE) / PTFE for PROCESS CONNECTION code 4 or 5									
Housing material and electrical connection – 11 th character									
AISI 304 ss	1/2 – 14 NPT								S
AISI 304 ss	M20 x 1.5 (CM20)								T
AISI 316 L ss	1/2 – 14 NPT								3
AISI 316 L ss	M20 x 1.5 (CM20)								4
Output/Additional options – 12 th character									
HART digital communication and 4 to 20mA			No additional options						H
HART digital communication and 4 to 20mA			Options requested (to be ordered by "Additional ordering code")						1

ADDITIONAL ORDERING INFORMATION for models 364DD

Add one or more 2-digit code(s) after the basic ordering information to select all required options

	XX	XX	XX	XX	XX	XX	XX	XX	XX
Electrical certification									
Combined ATEX (EEx ia and EEx d) plus FM plus CSA	EN								
Combined ATEX - Intrinsic Safety and Flameproof	E7								
Combined ATEX - Intrinsic Safety, Flameproof and Type "N"	EW								
Combined NEPSI - Intrinsic Safety, Flameproof and Type "N"	EP								
ATEX Group II Category 1 GD - Intrinsic Safety EEx ia	E1								
ATEX Group II Category 1/2 GD - Flameproof EEx d	E2								
Canadian Standard Association (CSA)	E4								
Factory Mutual (FM) approval	E6								
GOST (Russia) EEx ia	W1								
GOST (Russia) EEx d	W2								
GOST (Kazakhstan) EEx ia	W3								
GOST (Kazakhstan) EEx d	W4								
Integral LCD									
Digital LCD integral display		L1							
Operating manual									
German			M1						
Italian			M2						
Labels & tag language									
German				T1					
Italian				T2					
Additional customer plate									
Laser printing of customer data on wired-on stainless steel plate						I2			
Configuration									
Standard – Pressure = inH ₂ O/psi at 20° C; Temperature = deg. F							N2		
Standard – Pressure = inH ₂ O/psi at 4° C; Temperature = deg. F							N3		
Standard – Pressure = inH ₂ O/psi at 20° C; Temperature = deg. C							N4		
Standard – Pressure = inH ₂ O/psi at 4° C; Temperature = deg. C							N5		
Custom							N6		
Certificates									
Inspection certificate EN 10204-3.1 of calibration (9-point)							C1		
Certificate of compliance with the order EN 10204-2.1 of instrument design							C6		
Approvals									
Det Norske Veritas naval approval								C7	
Bureau Veritas naval approval								CV	
Material traceability									
Certificate of compliance with the order EN 10204-2.1 of process wetted parts									H1
Inspection certificate EN 10204-3.1 of process wetted parts									H3
Electrical connection plug									
Stainless steel blind plug (General purpose only)									Z1
Stainless steel blind plug (EEx d - Electrical certification code E2 only)									Z2

Note 1: Not available with diaphragm material/fill fluid code H

Note 2: Not available with diaphragm material/fill fluid code R

Standard delivery items (can be differently specified by additional ordering code)

- Adapters supplied loose
- General purpose (no electrical certification)
- Temporary plastic electrical connection blind plugs (two no Ex)
- No display, no mounting bracket
- English manual and labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

BASIC ORDERING INFORMATION model S364A Flanged seal (flush and extended) - Raised Face

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters	S	3	6	4	A	X	X	X	X	X	X	X	X	X	X	Cont'd
Flanged seal (flush and extended) to ASME B16.5																
Transmitter side of connection – 6th character																
High side																
Low side																
Mounting flange – 7th character																
Rotating																
Size – 8th character																
2in																
3in																
4in																
Rating – 9th character																
ASME CL 150																1
ASME CL 300																2
ASME CL 600 (Not available with 4in size)																3
ASME CL 900 (Not available with 4in size)																4
ASME CL 1500 (Not available with 4in size)																5
Mounting flange material – 10th character																
Carbon steel																A
AISI 316 ss																B
Extensions length and material – 11th character																
Flush (see next for diaphragm material)																F
50mm (2in) AISI 316 L ss (Note 2)																1
50mm (2in) Hastelloy 276™ (Note 2)																2
100mm (4in) AISI 316 L ss (Note 2)																3
100mm (4in) Hastelloy 276™ (Note 2)																4
150mm (6in) AISI 316 L ss (Note 2)																5
150mm (6in) Hastelloy 276™ (Note 2)																6
Diaphragm material (seal) – 12th character																
AISI 316 L ss (Note 3)																NACE
Hastelloy C276™ (Note 3)																NACE
Hastelloy C2000™ - (not for extended diaphragm) (Note 4)																NACE
Inconel 625 - (not for extended diaphragm) (Note 4)																NACE
Tantalum - (not for extended diaphragm) (Note 4)																NACE
AISI 316 L ss gold plated - (not for extended diaphragm) (Note 4)																NACE
AISI 316 L ss with anti-stick coating (Note 3)																NACE
Hastelloy C276™ with anti-stick coating																NACE
AISI 316 L ss with anti-corrosion and anti-stick coating (Note 3)																NACE
Diaflex (AISI with Anti Abrasion treatment) (Note 3)																F
Superduplex ss (UNS S32750 to ASTM SA479) - (not for extended diaphragm) (Note 4)																E
Seal surface finish – 13th character																
Serrated (Notes 3, 5)																1
Smooth																2
Capillary protection – 14th character																
AISI 316 L ss armour (RECOMMENDED FOR HIGH TEMPERATURE)																A
AISI 316 L ss armour with PVC protective cover																B
Extension tube for direct mount seal																N
Capillary length m (feet) – 15th character																
Internal short for direct mount construction																1
1 (3) (Note 6)																A
1.5 (5) (Note 7)																B
2 (7) (Note 7)																C
2.5 (8) (Note 7)																D
3 (10) (Note 7)																E
3.5 (12) (Note 7)																F
4 (13) (Note 7)																G
4.5 (15) (Note 7)																H
5 (17) (Note 7)																J
5.5 (18) (Note 7)																K
6 (20) (Note 7)																L
6.5 (22) (Note 7)																M
7 (23) (Note 7)																N
7.5 (25) (Note 7)																P
8 (27) (Note 7)																Q
9 (30) (Note 7)																R
10 (33) (Note 7)																S
12 (40) (Note 7)																T
14 (47) (Note 7)																U
16 (53) (Note 7)																V

2600T Pressure Transmitters

Model 364DD

SS/364DD_4

BASIC ORDERING INFORMATION S364A				X	X	X	X	X
Fill fluid – 16 th character								
Silicone oil				S				
Inert fluid - Galden	(Note 8)			N				
Inert fluid - Halocarbon	(Note 8)			D				
Silicone oil for high temperature				G				
Silicone polymer for low temperature				C				
Mineral oil (FDA approved)	(Note 9)			W				
Vegetable oil (FDA approved)	(Note 9)			A				
Glycerin-water (FDA approved)	(Note 9)			B				
Certification – 17 th character								
None						1		
Flushing ring: hole and thread – 18 th character								
None							N	
1 hole - 1/2in NPT	(Note 4)						2	
2 holes - 1/2in NPT	(Note 4)						3	
1 hole - 1/4in NPT	(Note 4)						4	
2 holes - 1/4in NPT	(Note 4)						5	
Flushing ring material – 19 th character								
None	(Note 10)							N
AISI 316 L ss	(Note 11)		NACE					A
Hastelloy C276	(Notes 11, 12)		NACE					H
Flushing ring: plug and gasket – 20 th character								
No plug - no gasket								N
No plug - garlock	(Note 11)							A
No plug - PTFE	(Note 11)							B
No plug - graphite	(Note 11)							C
AISI 316 L ss - no gasket	(Notes 11, 13)							D
AISI 316 L ss - garlock	(Notes 11, 13)							E
AISI 316 L ss - PTFE	(Notes 11, 13)							F
AISI 316 L ss - graphite	(Notes 11, 13)							G
Hastelloy C276 - no gasket	(Notes 11, 14)							H
Hastelloy C276 - garlock	(Notes 11, 14)							L
Hastelloy C276 - PTFE	(Notes 11, 14)							M
Hastelloy C276 - graphite	(Notes 11, 14)							P

- Note 1: Not available with size code E
- Note 2: Not available with mounting flange rating code 3, 4, 5
- Note 3: Not available with extensions length and material code 2, 4, 6
- Note 4: Not available with extensions length and material code 1, 2, 3, 4, 5, 6
- Note 5: Not available with diaphragm material code M, L, T, N, K, Y, W and H when selected with extension length and material code F, 2, 4, 6
- Note 6: Not available with capillary protection code A, B
- Note 7: Not available with capillary protection code N
- Note 8: Suitable for oxygen service
- Note 9: Suitable for food application
- Note 10: Not available with Flushing ring: hole and thread code 2, 3, 4, 5
- Note 11: Not available with Flushing ring: hole and thread code N
- Note 12: Not available with Seal surface finish code 1
- Note 13: Not available with Hastelloy C276 flushing ring material code H
- Note 14: Not available with AISI 316L flushing ring material code A

BASIC ORDERING INFORMATION model S364E Flanged seal (flush and extended)

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters				S	3	6	4	E	X	X	X	X	X	X	X	X	X	Cont'd
Flanged Remote seal (flush and extended) to EN 1092-1																		
Transmitter side of connection – 6th character																		
High side									H									
Low side									L									
Mounting flange – 7th character																		
Rotating										R								
Size – 8th character																		
DN 50													C					
DN 80													D					
DN 100													E					
Rating – 9th character																		
PN 16																1		
PN 40																2		
PN 63 (Not for DN 100 size)																3	(Note 1)	
PN 100 (Not for DN 100 size)																4	(Note 1)	
Mounting flange material – 10th character																		
Carbon steel																A		
AISI 316 ss																B		
Extensions length and material – 11th character																		
Flush (see next for diaphragm material)																F		
50mm (2in) AISI 316 L ss (Note 2)																1		
50mm (2in) Hastelloy 276™ (Note 2)																2		
100mm (4in) AISI 316 L ss (Note 2)																3		
100mm (4in) Hastelloy 276™ (Note 2)																4		
150mm (6in) AISI 316 L ss (Note 2)																5		
150mm (6in) Hastelloy 276™ (Note 2)																6		
Diaphragm material (seal) – 12th character																		
AISI 316 L ss (Note 3)													NACE		S			
Hastelloy C276™													NACE		H			
Hastelloy C2000™ - (not for extended diaphragm) (Note 4)													NACE		M			
Inconel 625 - (not for extended diaphragm) (Note 4)													NACE		L			
Tantalum - (not for extended diaphragm) (Note 4)													NACE		T			
AISI 316 L ss gold plated - (not for extended diaphragm) (Note 4)													NACE		N			
AISI 316 L ss with anti-stick coating (Note 3)													NACE		K			
Hastelloy C276™ with anti-stick coating													NACE		Y			
AISI 316 L ss with anti-corrosion and anti-stick coating (Note 3)													NACE		W			
Diaflex (AISI with Anti Abrasion treatment) (Note 3)													NACE		F			
Superduplex ss (UNS S32750 to ASTM SA479) - (not for extended diaphragm) (Note 4)													NACE		E			
Seal surface finish – 13th character																		
Serrated (Notes 3, 5)																1		
Smooth																2		
Capillary protection – 14th character																		
AISI 316 L ss armour (RECOMMENDED FOR HIGH TEMPERATURE)																A		
AISI 316 L ss armour with PVC protective cover																B		
Extension tube for direct mount seal																N		
Capillary length m (feet) – 15th character																		
Internal short for direct mount construction (Note 6)																1		
1 (3) (Note 7)																A		
1.5 (5) (Note 7)																B		
2 (7) (Note 7)																C		
2.5 (8) (Note 7)																D		
3 (10) (Note 7)																E		
3.5 (12) (Note 7)																F		
4 (13) (Note 7)																G		
4.5 (15) (Note 7)																H		
5 (17) (Note 7)																J		
5.5 (18) (Note 7)																K		
6 (20) (Note 7)																L		
6.5 (22) (Note 7)																M		
7 (23) (Note 7)																N		
7.5 (25) (Note 7)																P		
8 (27) (Note 7)																Q		
9 (30) (Note 7)																R		
10 (33) (Note 7)																S		
12 (40) (Note 7)																T		
14 (47) (Note 7)																U		
16 (53) (Note 7)																V		

2600T Pressure Transmitters

Model 364DD

SS/364DD_4

BASIC ORDERING INFORMATION S364E			X	X	X	X	X
Fill fluid – 16 th character							
Silicone oil			S				
Inert fluid - Galden	(Note 8)		N				
Inert fluid - Halocarbon	(Note 8)		D				
Silicone oil for high temperature			G				
Silicone polymer for low temperature			C				
Mineral oil (FDA approved)	(Note 9)		W				
Vegetable oil (FDA approved)	(Note 9)		A				
Glycerin-water (FDA approved)	(Note 9)		B				
Certification – 17 th character							
None					1		
Flushing ring: hole and thread – 18 th character							
None						N	
1 hole - 1/2in NPT	(Note 4)					2	
2 holes - 1/2in NPT	(Note 4)					3	
1 hole - 1/4in NPT	(Note 4)					4	
2 holes - 1/4in NPT	(Note 4)					5	
Flushing ring material – 19 th character							
None	(Note 10)						N
AISI 316 L ss	(Note 11)	NACE					A
Hastelloy C276	(Notes 11, 12)	NACE					H
Flushing ring: plug and gasket – 20 th character							
No plug - no gasket							N
No plug - garlock	(Note 11)						A
No plug - PTFE	(Note 11)						B
No plug - graphite	(Note 11)						C
AISI 316 L ss - no gasket	(Notes 11, 13)						D
AISI 316 L ss - garlock	(Notes 11, 13)						E
AISI 316 L ss - PTFE	(Notes 11, 13)						F
AISI 316 L ss - graphite	(Notes 11, 13)						G
Hastelloy C276 - no gasket	(Notes 11, 14)						H
Hastelloy C276 - garlock	(Notes 11, 14)						L
Hastelloy C276 - PTFE	(Notes 11, 14)						M
Hastelloy C276 - graphite	(Notes 11, 14)						P

Note 1: Not available with size code E

Note 2: Not available with mounting flange rating code 3, 4

Note 3: Not available with extensions length and material code 2, 4, 6

Note 4: Not available with extensions length and material code 1, 2, 3, 4, 5, 6

Note 5: Not available with diaphragm material code M, L, T, N, K, Y, W and H when selected with extension length and material code F, 2, 4, 6

Note 6: Not available with capillary protection code A, B

Note 7: Not available with capillary protection code N

Note 8: Suitable for oxygen service

Note 9: Suitable for food application

Note 10: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 11: Not available with Flushing ring: hole and thread code N

Note 12: Not available with Seal surface finish code 1

Note 13: Not available with Hastelloy C276 flushing ring material code H

Note 14: Not available with AISI 316L flushing ring material code A

2600T Pressure Transmitters

Model 364DD

SS/364DD_4

BASIC ORDERING INFORMATION S364G	X	X	X	X	X
Fill fluid – 16 th character					
Silicone oil	S				
Inert fluid - Galden (Note 5)	N				
Inert fluid - Halocarbon (Note 5)	D				
Silicone oil for high temperature	G				
Silicone polymer for low temperature	C				
Mineral oil (FDA approved) (Note 6)	W				
Vegetable oil (FDA approved) (Note 6)	A				
Glycerin-water (FDA approved) (Note 6)	B				
Certification – 17 th character					
None		1			
Flushing ring: hole and thread – 18 th character					
None (TO BE SELECTED FOR EXTENDED VERSIONS)			N		
Flushing ring material – 19 th character					
None				N	
Flushing ring: plug and gasket – 20 th character					
No plug - no gasket					N

Note 1: Not available with A100 size code D

Note 2: Not available with diaphragm material code H, M, L, T, N, K, Y, W

Note 3: Not available with capillary protection code A, B

Note 4: Not available with capillary protection code N

Note 5: Suitable for oxygen service

Note 6: Suitable for food application

BASIC ORDERING INFORMATION model S364R Flanged seal - Ring Joint

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters	S	3	6	4	R	X	X	X	X	X	X	X	X	X	X	Cont'd	
Flanged Remote seal Ring joint to ASME B16.5																	
Transmitter side of connection – 6 th character						H											
High side						L											
Low side																	
Mounting flange – 7 th character						R											
Rotating																	
Size – 8 th character						B											
1-1/2in						C											
2in						D											
3in																	
Rating – 9 th character						1											
ASME CL 150						2											
ASME CL 300						3											
ASME CL 600						4											
ASME CL 900						5											
ASME CL 1500																	
Mounting flange material – 10 th character						A											
Carbon steel						B											
AISI 316 ss																	
Extensions length and material – 11 th character						F											
Flush (see next for diaphragm material)																	
Diaphragm material – 12 th character						NACE			S								
AISI 316 L ss						NACE			H								
Hastelloy C276™						NACE			L								
Inconel 625																	
Seal surface finish – 13 th character									3								
Ring joint																	
Capillary protection – 14 th character						(RECOMMENDED FOR HIGH TEMPERATURE)			A								
AISI 316 L ss armour									B								
AISI 316 L ss armour with PVC protective cover									N								
Extension tube for direct mount seal																	
Capillary length m (feet) – 15 th character									1								
Internal short for direct mount construction						(Note 1)			A								
1 (3)						(Note 2)			B								
1.5 (5)						(Note 2)			C								
2 (7)						(Note 2)			D								
2.5 (8)						(Note 2)			E								
3 (10)						(Note 2)			F								
3.5 (12)						(Note 2)			G								
4 (13)						(Note 2)			H								
4.5 (15)						(Note 2)			J								
5 (17)						(Note 2)			K								
5.5 (18)						(Note 2)			L								
6 (20)						(Note 2)			M								
6.5 (22)						(Note 2)			N								
7 (23)						(Note 2)			P								
7.5 (25)						(Note 2)			Q								
8 (27)						(Note 2)			R								
9 (30)						(Note 2)			S								
10 (33)						(Note 2)			T								
12 (40)						(Note 2)			U								
14 (47)						(Note 2)			V								
16 (53)						(Note 2)											

2600T Pressure Transmitters

Model 364DD

SS/364DD_4

BASIC ORDERING INFORMATION S364R	X	X	X	X	X
Fill fluid – 16 th character					
Silicone oil	S				
Inert fluid - Galden (Note 3)	N				
Inert fluid - Halocarbon (Note 3)	D				
Silicone oil for high temperature	G				
Silicone polymer for low temperature	C				
Mineral oil (FDA approved) (Note 4)	W				
Vegetable oil (FDA approved) (Note 4)	A				
Glycerin-water (FDA approved) (Note 4)	B				
Certification – 17 th character					
None		1			
Flushing ring: hole and thread – 18 th character					
Not fitted			N		
Flushing ring material – 19 th character					
None				N	
Flushing ring: plug and gasket – 20 th character					
None					N

Note 1: Not available with capillary protection code A, B

Note 2: Not available with capillary protection code N

Note 3: Suitable for oxygen service

Note 4: Suitable for food application

BASIC ORDERING INFORMATION model S364M Off-line mini-flanged seal

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters				S	3	6	4	M	X	X	X	X	X	X	X	X	X	X		
Off-line mini-flanged seal																				
Transmitter side of connection – 6 th character																				
High side									H											
Low side									L											
Mounting flange – 7 th character																				
Integral with seal										P										
Size/Mounting flange rating – 8 th character																				
1/2in ASME CL 150												6								
1/2in ASME CL 300												7								
1in ASME CL 150												A								
1in ASME CL 300												C								
1 1/2in ASME CL 150												B								
1 1/2in ASME CL 300												D								
DN25 EN PN 16/40												M								
DN40 EN PN 16/40												N								
Mounting flange/Seat form (seal) – 9 th character																				
AISI 316 ss Form RF (raised face) – serrated finish (Note 1) NACE												D								
AISI 316 ss EN 1092-1 Type B1 – serrated finish (Note 2) NACE												L								
Hastelloy C276™ Form RF (raised face) – serrated finish (Note 1) NACE												U								
Hastelloy C276™ EN 1092-1 Type B1 – serrated finish (Note 2) NACE												V								
Diaphragm material (seal) – 10 th character																				
AISI 316 L ss NACE												S								
Hastelloy C276™ NACE												H								
Hastelloy C2000™ NACE												M								
Inconel 625 NACE												L								
Tantalum												T								
AISI 316 L ss gold plated												N								
Capillary protection – 11 th character																				
AISI 316 L ss armour (RECOMMENDED FOR HIGH TEMPERATURE)																		A		
AISI 316 L ss armour with PVC protective cover																			B	
Extension tube for direct mount seal																			N	
Capillary length m (feet) – 12 th character																				
Internal short for direct mount construction (Note 3)																			1	
1 (3) (Note 4)																			A	
1.5 (5) (Note 4)																			B	
2 (7) (Note 4)																			C	
2.5 (8) (Note 4)																			D	
3 (10) (Note 4)																			E	
3.5 (12) (Note 4)																			F	
4 (13) (Note 4)																			G	
4.5 (15) (Note 4)																			H	
5 (17) (Note 4)																			J	
5.5 (18) (Note 4)																			K	
6 (20) (Note 4)																			L	
6.5 (22) (Note 4)																			M	
7 (23) (Note 4)																			N	
7.5 (25) (Note 4)																			P	
8 (27) (Note 4)																			Q	
9 (30) (Note 4)																			R	
Fill fluid – 13 th character																				
Silicone oil																			S	
Inert fluid - Galden (Note 5)																				N
Inert fluid - Halocarbon (Note 5)																				D
Silicone oil for high temperature																				G
Silicone polymer for low temperature																				C
Mineral oil (FDA approved) (Note 6)																				W
Vegetable oil (FDA approved) (Note 6)																				A
Glycerin-water (FDA approved) (Note 6)																				B
Flushing connections – 14 th character																				
Not required																			1	
Provided																			Q	
Gasket – 15 th character																				
PTFE																				2
Viton™																				3
Graphite																				7

Note 1: Not available with size/mounting flange rating code M, N

Note 4: Not available with capillary protection code N

Note 2: Not available with size/mounting flange rating code A, B, C, D, 6, 7

Note 5: Suitable for oxygen service

Note 3: Not available with capillary protection code A, B

Note 6: Suitable for food application

BASIC ORDERING INFORMATION model S364T Off-line threaded seal

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters	S	3	6	4	T	X	X	X	X	X	X	X	X	X	X	X	
Off-line threaded seal																	
Transmitter side of connection – 6th character																	
High side																H	
Low side																L	
Size – 7th character																	
1/4in NPT-f																1	
1/2in NPT-f																2	
3/4in NPT-f																5	
1in NPT-f																3	
1-1/2in NPT-f																4	
Bolts – 8th character																	
AISI 316 L ss																1	
Carbon steel																2	
Alloy steel															NACE	3	
Flange material – 9th character																	
AISI 316 ss															NACE	1	
Hastelloy C276™															NACE	2	
Diaphragm material – 10th character																	
AISI 316 L ss															NACE	S	
Hastelloy C276™															NACE	H	
Hastelloy C2000™															NACE	M	
Inconel 625															NACE	L	
Tantalum																T	
AISI 316 L ss gold plated																N	
Capillary protection – 11th character																	
AISI 316 L ss armour																(RECOMMENDED FOR HIGH TEMPERATURE)	A
AISI 316 L ss armour with PVC protective cover																	B
Extension tube for direct mount seal																	N
Capillary length m (feet) – 12th character																	
Internal short for direct mount construction																(Note 1)	1
1 (3)																(Note 2)	A
1.5 (5)																(Note 2)	B
2 (7)																(Note 2)	C
2.5 (8)																(Note 2)	D
3 (10)																(Note 2)	E
3.5 (12)																(Note 2)	F
4 (13)																(Note 2)	G
4.5 (15)																(Note 2)	H
5 (17)																(Note 2)	J
5.5 (18)																(Note 2)	K
6 (20)																(Note 2)	L
6.5 (22)																(Note 2)	M
7 (23)																(Note 2)	N
7.5 (25)																(Note 2)	P
8 (27)																(Note 2)	Q
9 (30)																(Note 2)	R
Fill fluid – 13th character																	
Silicone oil																	S
Inert fluid - Galden																(Note 3)	N
Inert fluid - Halocarbon																(Note 3)	D
Silicone oil for high temperature																	G
Silicone polymer for low temperature																	C
Mineral oil (FDA approved)																(Note 4)	W
Vegetable oil (FDA approved)																(Note 4)	A
Glycerin-water (FDA approved)																(Note 4)	B
Flushing connections – 14th character																	
Not required																	1
Provided																(Note 5)	Q
Gasket – 15th character																	
PTFE																	2
Viton™																	3
Graphite																	7

- Note 1: Not available with capillary protection code A, B
- Note 2: Not available with capillary protection code N
- Note 3: Suitable for oxygen service
- Note 4: Suitable for food application
- Note 5: Not available with size code 4

BASIC ORDERING INFORMATION model S364S Food and Sanitary Seals

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters	S	3	6	4	S	X	X	X	X	X	X	X	X
Food and Sanitary remote seals													
Transmitter side of connection – 6th character													
High side						H							
Low side						L							
Mounting connection – 7th character													
Union nut DIN 11851 – F50 (Note 1)												A	
Union nut DIN 11851 – F80 (Note 1)												B	
2in Triclamp												F	
3in Triclamp												G	
4in Triclamp												H	
2in Cherry Burrell												L	
3in Cherry Burrell												M	
4in Cherry Burrell												N	
4in Sanitary flush diaphragm												P	
4in Sanitary extended (2in) diaphragm												Q	
4in Sanitary extended (4in) diaphragm												R	
4in Sanitary extended (6in) diaphragm												S	
Seal diaphragm material – 8th character													
AISI 316 L ss												S	
Capillary protection – 9th character													
AISI 316 L ss armour (RECOMMENDED FOR HIGH TEMPERATURE)												A	
AISI 316 L ss armour with PVC protective cover												B	
No capillary												N	
Capillary length m (feet) – 10th character													
Internal short for direct mount seal (Note 2)													1
1 (3) (Note 3)													A
1.5 (5) (Note 3)													B
2 (7) (Note 3)													C
2.5 (8) (Note 3)													D
3 (10) (Note 3)													E
3.5 (12) (Note 3)													F
4 (13) (Note 3)													G
4.5 (15) (Note 3)													H
5 (17) (Note 3)													J
5.5 (18) (Note 3)													K
6 (20) (Note 3)													L
6.5 (22) (Note 3)													M
7 (23) (Note 3)													N
7.5 (25) (Note 3)													P
8 (27) (Note 3)													Q
9 (30) (Note 3)													R
10 (33) (Note 3)													S
Fill fluid – 11th character													
Silicone oil													S
Mineral oil (FDA approved) (Note 4)													W
Vegetable oil (FDA approved) (Note 4)													A
Glycerin-water (FDA approved) (Note 4)													B
Clamp/Fittings – 12th character													
None													1
2in V-band Clamp (for 2in Triclamp)													A
3in V-band Clamp (for 3in Triclamp)													B
4in V-band Clamp (for 4in Triclamp, 4in Cherry Burrell, 4in Sanitary flush and 4in aseptic flanged)													C
4in Tank spud, tank wall up to 4.7mm (0.18) and 4in V-band Clamp (for 4in Sanitary flush seal)													D
4in Tank spud, tank wall up to 9.5mm (0.37) and 4in V-band Clamp (for 4in Sanitary flush seal)													E
4in schedule 5 V-band clamp (for 4in Sanitary extended seal)													F
Tank spud for 2in extension and 4in schedule 5 V-band clamp (for 4in Sanitary extended 2in seal)													G
Tank spud for 4in extension and 4in schedule 5 V-band clamp (for 4in Sanitary extended 4in seal)													H
Tank spud for 6in extension and 4in schedule 5 V-band clamp (for 4in Sanitary extended 6in seal)													J
Aseptic tank spud (for 4in aseptic flanged seal)													P
Gasket – 13th character													
None													1
Ethylene propylene gasket DN100 (for 4in Sanitary extended seal) - (EPDM 3-A 18-03 Class II)													A
Ethylene propylene gasket DN50 (for F50 Union nut seal)													C
Ethylene propylene gasket DN80 (for F80 Union nut seal)													D
Ethylene propylene gasket (for 4in Sanitary flush) - (EPDM 3-A 18-03 Class II)													G

Note 1: Union nut DIN 11851 (F50 and F80) are not 3-A authorized models

Note 3: Not available with capillary protection code N

Note 2: Not available with capillary protection code A, B

Note 4: Suitable for food application

BASIC ORDERING INFORMATION model S364W Wafer Remote Seal

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL – 1 st to 5 th characters				S	3	6	4	W	X	X	X	X	F	X	X	X	X	X	Cont'd
Wafer Remote Seal																			
Transmitter side of connection – 6 th character																			
High side																			
Low side																			
Centering system – 7 th character																			
Seat on back diameter (suitable for ASME backup flange)																			
Size – 8 th character																			
1 1/2in ASME																			
2in ASME																			
3in ASME																			
1 1/2in ASME food design																			
3in ASME food design																			
EN DN40																			
EN DN50																			
EN DN80																			
Seat finish – 9 th character																			
Serrated finish (suitable for ASME)																			
Smooth finish (suitable for ASME)																			
Serrated finish to EN 1092-1 Type B1; up to PN40																			
Serrated finish to EN 1092-1 Type B2; PN63 to PN100																			
Smooth finish (suitable for EN)																			
Use code – 10 th character																			
Diaphragm material – 11 th character																			
AISI 316 L ss																			
Hastelloy C276™																			
Hastelloy C2000™																			
Inconel 625																			
Tantalum																			
AISI 316 L ss gold plated																			
AISI 316 L ss with anti-stick coating																			
Hastelloy C276™ with anti-stick coating																			
AISI 316 L ss with anti-corrosion and anti-stick coating																			
Diaflex (AISI with Anti Abrasion treatment)																			
Superduplex ss (UNS S32750 to ASTM SA479)																			
Capillary protection – 12 th character																			
AISI 316 L ss armour																			
AISI 316 L ss armour with PVC protective cover																			
Capillary length m (feet) – 13 th character																			
1 (3)																			
1.5 (5)																			
2 (7)																			
2.5 (8)																			
3 (10)																			
3.5 (12)																			
4 (13)																			
4.5 (15)																			
5 (17)																			
5.5 (18)																			
6 (20)																			
6.5 (22)																			
7 (23)																			
7.5 (25)																			
8 (27)																			
9 (30)																			
10 (33)																			
12 (40)																			
14 (47)																			
16 (53)																			
Fill fluid – 14 th character																			
Silicone oil																			
Inert fluid - Galden																			
Inert fluid - Halocarbon																			
Silicone oil for high temperature																			
Silicone polymer for low temperature																			
Mineral oil (FDA approved)																			
Vegetable oil (FDA approved)																			
Glycerin-water (FDA approved)																			
Certification – 15 th character																			
None																			

2600T Pressure Transmitters

Model 364DD

SS/364DD_4

BASIC ORDERING INFORMATION S364W			X	X	X
Flushing ring: hole and thread – 16 th character					
None			N		
1 hole - 1/2in NPT			2		
2 holes - 1/2in NPT			3		
1 hole - 1/4in NPT			4		
2 holes - 1/4in NPT			5		
Flushing ring material – 17 th character					
None	(Note 7)				N
AISI 316 L ss	(Note 8)	NACE			A
Hastelloy C276	(Notes 4, 8)	NACE			H
Flushing ring: plug and gasket – 18 th character					
No plug - no gasket					N
No plug - garlock	(Note 8)				A
No plug - PTFE	(Note 8)				B
No plug - graphite	(Note 8)				C
AISI 316 L ss - no gasket	(Notes 8, 9)				D
AISI 316 L ss - garlock	(Notes 8, 9)				E
AISI 316 L ss - PTFE	(Notes 8, 9)				F
AISI 316 L ss - graphite	(Notes 8, 9)				G
Hastelloy C276 - no gasket	(Notes 8, 10)				H
Hastelloy C276 - garlock	(Notes 8, 10)				L
Hastelloy C276 - PTFE	(Notes 8, 10)				M
Hastelloy C276 - graphite	(Notes 8, 10)				P

Note 1: Not available with EN size code D, E, F

Note 2: Not available with food design size code 1, 2

Note 3: Not available with ASME size code A, B, C

Note 4: Not available with serrated seat finish code D, R, S

Note 5: Suitable for oxygen service

Note 6: Suitable for food application

Note 7: Not available with flushing ring - hole and thread code 2, 3, 4, 5

Note 8: Not available with flushing ring - hole and thread code N

Note 9: Not available with flushing ring material code H

Note 10: Not available with AISI 316L flushing ring material code A

Contact us

ABB Ltd.

Process Automation

Howard Road
St. Neots
Cambridgeshire PE19 8EU
UK
Tel: +44 (0)1480 475321
Fax: +44 (0)1480 217948

ABB Inc.

Process Automation

125 E. County Line Road
Warminster
PA 18974
USA
Tel: +1 215 674 6000
Fax: +1 215 674 7183

ABB Automation Products GmbH

Process Automation

Schillerstr. 72
32425 Minden
Germany
Tel: +49 551 905 534
Fax: +49 551 905 555

ABB S.p.A.

Process Automation

Via Statale 113
22016 Lenno (CO)
Italy
Tel: +39 0344 58111
Fax: +39 0344 56278

www.abb.com

Note

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in parts - is forbidden without prior written consent of ABB.

Copyright© 2010 ABB
All rights reserved

™ Hastelloy C276 is a Cabot Corporation trademark

™ Hastelloy C2000 is an Haynes International trademark

™ Monel is an International Nickel Co. trademark

™ Viton is a Dupont de Nemour trademark

™ DC200 and DC704 are Dow Corning Corporation trademarks

™ Galden is a Montefluos trademark

™ Halocarbon is a Halocarbon Products Co. trademark

™ Neobee M20 is a Stepan Company trademark

™ Marcol is a Esso Italiana trademark

™ Syltherm is a Dow Chemical Company trademark