Electronic pressure measurement

Industrial pressure transmitter

- Outstanding accuracy over wide compensated temperature range
- Excellent long-term stability
- High overpressure resistance
- Abrasion and chemical resistant
- Wide range of process and electrical connections
- Suitable for outdoor applications
- 4 technologies : ceramic thick film, capacitive ceramic, metallic thin film and piezo-resistive silicon

Model	CTL (*), CTX	PBSN	PBCN	PBMN		PDRx (class B and C)	PBCX	PBMX	PFSX	TED6, YTED
Pressure range	-1 ... 0 to 0 ... 200 bar	-1 ... 0 to 0 ... 600 bar	-1 ... 0 bar to 0 ... 40 bar	-100 ... 100 mbar to 0 ... 1600 bar		40 ... 1600 bar	-1 ... 0 bar to 0 ... 40 bar	-100 ... 100 mbar to 0 ... 1600 bar	-1 ... 0 to 0 ... 400 bar	-1 ... 0 to 0 ... 400 bar
Overpressure	Max. 360 bar	Max. 800 bar	Max. 105 bar	Max. 3200 bar		Max. 3200 bar	Max. 105 bar	Max. 3200 bar	Max. 600 bar	Max. 600 bar
Accuracy (Linearity, repeatability, hysteresis)	±1.0% F.S.	±0.7% F.S., ±0.5% F.S.	±0.5% F.S..	±0.5% F.S, ±0.25% F.S., ±0.1% F.S.		±0.3% F.S, ±0.5% F.S	±0.5% F.S, ±0.25% F.S., ±0.1% F.S.	±0.5% F.S, ±0.25% F.S., ±0.1% F.S.	±0.5% F.S.	±0.5% F.S.
Output signal	4 ... 20 mA, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V	4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V	4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V	4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V		4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 1 ... 10 V	4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V	4 ... 20 mA, 0 ... 5 V, 0 ... 10 V, 1 ... 5 V, 0.5 ... 4.5 V	4 ... 20 mA (3-wire), 2 static relays switching outputs	4 ... 20 mA, 2xPNP switching outputs
Process connection	G¼, G½, ¼NPT, ½NPT	G¼ EN 837, G½ EN 837, ¼NPT, ½NPT, G¼ DIN 3852, M20x150	G¼ EN 837, G½ EN 837, ¼NPT, ½NPT, G¼ DIN 3852, M20x150, G¼ female	G¼ EN 837, G½ EN 837, ¼NPT, ½NPT, G¼ DIN 3852, M20x150, M14x150 cone 60°, G½ DIN 3852		G¼ EN 837, G¼ DIN 3852, M12x1.5 EN 837, M12x1.5 DIN 3852	G¼ EN 837, G½ EN 837, ¼NPT, ½NPT, G¼ DIN 3852, M20x150, G½ DIN 3852	G¼ EN 837, G½ EN 837, ¼NPT, ½NPT, G¼ DIN 3852, M20x150, M14x150 cone 60°, G½ DIN 3852	G¼ EN 837, G½ EN 837, G¼ DIN 3852	G¼, ¼NPT, G½, ½NPT, M20x1.5, G¼ female
Electrical connection	DIN 43650, pig tail cable outlet, M12 plug, ...	DIN 43650, pig tail cable outlet, M12 plug, ...	DIN 43650, pig tail cable outlet, M12 plug, ...	DIN 43650, pig tail cable outlet, M12 plug, ...		M12 plug, MIL	DIN 43650, pig tail cable outlet, M12 plug, ...	DIN 43650, pig tail cable outlet, M12 plug, ...	M12-8 male	M12-5 plug
Technology	Ceramic thick film	Ceramic thick film	Capacitive ceramic	Piezoresistive silicon < 40 bar Metallic thin film ≥ 40 bar		Metallic thin film	Capacitive ceramic	Piezoresistive silicon < 40 bar Metallic thin film ≥ 40 bar	Ceramic thick film	Ceramic thick film
Protection class	IP 65	IP 65, IP 67	IP 65, IP 67	IP 65, IP 67		IP 65, IP 67	IP 65, IP 67	IP 65, IP 67	IP 65, IP 67	IP 67
Approval						UL	Ex ia IIC T5/T6, ATEX II 1G Ex nA IIC T4/T5, ATEX II 3G Ex tD A20 IP67 T100 °C, ATEX II 1D	Ex ia IIC T5/T6, ATEX II 1G Ex nA IIC T4/T5, ATEX II 3G Ex tD A20 IP67 T100 °C, ATEX II 1D	SIL 2	ATEX II 1G Ex ia IIC T6 or T5 (YTED)
Additional data	- (*) brass construction	- Configurable with FlexProgrammer	- Configurable with FlexProgrammer	- Configurable with FlexProgrammer			- Configurable with FlexProgrammer	- Configurable with FlexProgrammer		- 300° swivelling version (option)

Electronic pressure measurement

Hygienic pressure transmitter

- For food and pharmaceutical industries
- Standard hygienic and customer specifics fittings
- Products designed to support CIP (Cleaning-in-Place) and SIP (Sterilization-in-Place) cycles
- LCD or LED display available
- Option for high temperature application






Model	E93x	ED 701, hygienic with cooling neck	ED 701, hygienic	FlexBar HRT, hygienic		FlexBar HRT, homogeniser	FlexBar 3431, hygienic	TED6, hygienic		
Pressure range	-1 ... 0 to 0.25 ... 40 bar (60 ... 600 bar for homogeniser)	100 mbar ... 40 bar	100 mbar ... 40 bar	-1(0) ... 400 bar		0 ... 400 bar	-1(0) ... 400 bar	-1(0) ... 400 bar		
Overpressure	Max. 80 bar (max. 800 bar for homogeniser)	Max. 120 bar	Max. 120 bar	400% of M.R., max. 600 bar		Max. 600 bar	Max. 600 bar	Max. 600 bar		
Accuracy (Linearity, repeatability, hysteresis)	±1.0% F.S.	±0.2% F.S., ±0.4% F.S.	±0.1% F.S., ±0.2% F.S., ±0.4% F.S.	±0.2% F.S.		±0.2% F.S.	±0.2% F.S.	±0.5% F.S.		
Output signal	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 1 ... 5 V	4 ... 20 mA, 0 ... 10 V, 0 ... 5 V	4 ... 20 mA, 0 ... 10 V, 0 ... 5 V	4 ... 20 mA, HART® protocol		4 ... 20 mA, HART® protocol	Profibus® PA communication	4 ... 20 mA + 2 PNP switching output		
Process connection	Clamp, DIN, SMS, G½ or G1 with conical threading, homogeniser	Tri-Clamp, Clamp DIN 11864-3 and ISO 2852	Tri-Clamp, Clamp DIN 11864-3 and ISO 2852	ISO 2852 clamp, 3A hygienic, SMS 1145, DIN 11851, Varivent		Flush PN 400 A, B, C, D	G½, ½-14 NPT flush diaphragm	Clamp, DIN, SMS, G½ or G1 with conical threading		
Electrical connection	DIN 43650, pig tail cable outlet, M12 plug, HE302 plug	DIN 43650, cable output, M12 plug, field housing	DIN 43650, cable output, M12 plug, field housing	DIN 43650, pig tail cable outlet, M12 plug, ...		DIN 43650, pig tail cable outlet, M12 plug, ...	Cable, gland M16, M12 plug, DIN 13650 plug	M12 plug		
Technology	Ceramic thick film	Piezo-resistive silicon	Piezo-resistive silicon	Piezo-resistive silicon		Piezo-resistive silicon	Piezo-resistive silicon	Ceramic thick film		
Protection class	IP 65, IP 67	IP 65, IP 67	IP 65, IP 67	IP 65, IP 67		IP 65, IP 67	IP 66, IP 67	IP 67		
Approval	BV Marine, CSA, FM, 3A-Sanitary Standard ATEX (Y930)	Lloyd's Register, ATEX II 2 G and II 1D, Ex ia	Lloyd's Register, ATEX II 2 G and II 1D, Ex ia	Ex ia, ATEX, 3A			Ex ia, ATEX II 1G, Ex ia IIC T5/T6, 3A	Intrinsically safe version (Ex ia) conforms to ATEX Directive (YTED), 3A		
Additional data	- Intrinsically safe version (Ex ia)			- Configurable with FlexProgrammer and HART® configurator - FlexView LC-display optional - Turn down 25:1		- Configurable with FlexProgrammer and HART® configurator - FlexView LC-display optional - Turn down 25:1	- Configurable with FlexProgrammer and via Profibus PA - FlexView LC-display optional. Option: Hastelloy C276 - Turn down 25:1	- 300° swivelling version (option)		

Electronic pressure measurement

Pressure transmitter with flush diaphragm

- All stainless steel construction with flush diaphragm connection
- Measurements on viscous and heavy fluids
- Wide range of hydraulic connections
- Excellent repeatability
- Very good long term stability

Differential pressure transmitter

- Low differential, high line pressure

Model	E92x	ED711	ED 701			FlexBar HRT	FlexBar 3431	Model	EDD 575 FKC	
Pressure range	1.6 ... 600 bar	100 mbar ... 20 bar	100 mbar ... 40 bar			-0.1 ... 0.4 to -1 ... 400 bar	-1(0) ... 400 bar	Pressure range	1 mbar ... 30 bar	
Overpressure	Max. 800 bar	Max. 60 bar	Max. 120 bar			400% of M.R., max. 600 bar	Max. 600 bar	Static pressure	160 bar	
Accuracy (Linearity, repeatability, hysteresis)	±1.0% F.S.	±0.4% F.S.	±0.1% F.S., ±0.2% F.S., ±0.4% F.S.			±0.2% F.S.	±0.2% F.S.	Accuracy (linearity, hysteresis and repeatability at 20 °C)	±0.1% F.S.	
Output signal	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 1 ... 5 V	4 ... 20 mA, 0 ... 10 V, 0 ... 5 V	4 ... 20 mA, 0 ... 10 V, 1 ... 5 V			4 ... 20 mA, HART® protocol	Profibus® PA communication	Sensing element	Stainless steel Silicium capacitive sensor	
Process connection	G½, G¾, G1 and ½NPT flush diaphragm	Male thread G½ flush diaphragm DIN 3852 (CombiConnect)	G1 and G½ flush diaphragm with cone, G½ DIN 3852			G½ or ½-14 NPT flush diaphragm	G½ or ½-14 NPT flush diaphragm	Supply voltage	10.5 ... 45 VDC	
Electrical connection	DIN 43650, pig tail cable outlet, M12 plug, HE302 plug	DIN 43650 Plug ; M12, 4 pole Industrial Plug	DIN 43650, cable output, M12 plug, field housing			Cable DIN 13650 plug	Cable DIN 13650 plug	Output signal	4 ... 20 mA, HART®	
Technology	Ceramic thick film	Piezo-resistive silicon	Piezo-resistive silicon			Piezo-resistive silicon	Piezo-resistive silicon	Process connection	2 x 1/4 18 NPT female	
Protection class	IP 65, IP 67	IP 65	IP 65, IP 67			IP 65, IP 67	IP 65, IP 67	Protection class	IP 67	
Approval	BV Marine, CSA, FM, Lloyd's Register		Lloyd's Register, ATEX II 2G and II 1D, Ex ia			Ex ia, ATEX II 1G Ex ia IIC T5/T6	Ex ia, ATEX II 1G Ex ia IIC T5/T6	Approval	NEMA 4X, ATEX II 2G/D / Ex ia II CT T4 / T5	
Additional data	- Intrinsically safe version (Ex ia) conforms to ATEX Directive (Y92x)		- Adapter for high temperature (cooling device)			- Configurable with FlexProgrammer and HART® configurator - FlexView LC-display optional - Option : Hastelloy C276 - Turn down 25:1	- Configurable with FlexProgrammer - FlexView LC-display optional - Option: Hastelloy C276 - Turn down 25:1	Additional data		

Electronic pressure measurement

Pressure transmitter digital communication

- Standard communication protocol
- Very high reliability
- HeavyDuty transmitter

Barflex®: the most popular digital pressure gauge

- Data acquisition
- IrDA data transfer
- Leak detection

Model	FlexBar HRT, HART® protocol	FlexBar 3431, Profibus ® PA	PDRJ, PDAJ, CANopen	TEDM, Modbus™		BarFlex®				
Pressure range	-1(0) ... 400 bar	-1(0) ... 400 bar	0 ... 1 to 0 ... 1000 bar	-1(0) ... 400 bar		-1(0) ... 400 bar				
Overpressure	Max. 600 bar	Max. 600 bar	Max. 2000 bar	Max. 600 bar		Max. 800 bar				
Accuracy (Linearity, repeatability, hysteresis)	±0.2% F.S.	±0.2% F.S.	±0.3% F.S.	±0.5% F.S.		±0.1% F.S., ±0.25% F.S.				
Output signal	4 ... 20 mA, HART® protocol	Profibus® PA communication	CANopen DS404	RS-485, Modbus™ RTU 2 isolated switching output		IrDA (infrared)				
Process connection	G½ and ½NPT flush diaphragm, hygienic connections	G½ and ½NPT flush diaphragm, hygienic connections	G¼ female	G½, G¼, ½NPT, ¼NPT, hygienic connections		M12x5, DIN2353, adaptor G½, ½NPT				
Electrical connection	Cable, gland M16 or M20, M12 plug, Din 43650	Cable, gland M16, M12 plug	M12 plug, connector MIL C26482 or DIN 45322, PVC cable	M12-8 plug		IrDA port				
Technology	Piezo-resistive silicon	Piezo-resistive silicon	Metal thin film	Ceramic thick film		Ceramic thick film				
Protection class	IP 65, IP 67	IP 66, IP 67	IP 66	IP 67		IP 65				
Approval	Ex ia, ATEX II 1G Ex ia IIC T5/T6	Ex ia, ATEX II 1G Ex ia IIC T5/T6				Ex ia IIC T6, ATEX II 1G				
Additional data	- Configurable with FlexProgrammer and HART® configurator - FlexView LC-display optional - Option : Hastelloy C276 - Turn down 25:1	- Configurable with FlexProgrammer - FlexView LC-display optional - Option : Hastelloy C276 - Turn down 25:1		- Configurable with Modbus™ software						

Mechanical pressure measurement

Industrial pressure gauge

- Bourdon tube, capsule or diaphragm element
- Corrosive environment
- Wide range of pressure from a few mbar to 1600 bar
- Many types of mounting and process connections
- Many options: material of windows, filling liquid, overpressure protection device, pointers
- Nace compliant
- No oil filling with the DP series for hygienic application

Model	MEX2, MEX3	MEX5, DRC100	MIX7	MEX8		MCX5, MCX7	DPC100, DPC150	DP100 hygienic		
DN	50 and 63 mm	100 mm	150 mm	160 mm		100 and 150 mm	100 and 150 mm	100 mm		
Pressure range	-1 ... 0 to 0 ... 1000 bar -30"Hg to 0 ... 15.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi		-25 ... 0 to 0 ... 600 mbar	-25 ... 0 mbar to 0 ... 25 bar	0 ... 6 to 0 ... 10 bar		
Accuracy class	1.6	1.0	1.0	1.0		1.6 and 2.5	1.6	1.6		
Case material	Stainless steel	Stainless steel	Stainless steel	Stainless steel		Stainless steel	Stainless steel	Stainless steel		
Sensing element material	Stainless steel, option: Monel	Stainless steel, option: Monel	Stainless steel, option: Monel	Stainless steel, option: Monel		Stainless steel	Duratherm 600, option PTFE coated	Stainless steel		
Process connection	G¼, ¼NPT	G½, ½NPT, M20x1.5	G½, ½NPT, M20x1.5	G½, ½NPT, M20x1.5		G½, ½NPT	G½, flange	Clamp connection ISO 2852 Varivent connection® Paper connection with tubes		
Type of mounting	Bottom or back connection, panel mounting flange, clamp	Bottom or back connection, panel mounting flange, clamp	Bottom or back connection, panel mounting flange, clamp	Bottom or back connection, panel mounting flange, clamp		Bottom or back connection, panel mounting flange, clamp	Bottom connection	Bottom connection		
Protection class	IP 65	IP 65	IP 65	IP 65		IP 65	IP 54	IP 54		
Approval	EN 837-1, Lloyd's Register, ATEX 94/9/CE (option)	EN 837-1, Lloyd's Register, ATEX 94/9/CE (option)	EN 837-1, Lloyd's Register, ATEX 94/9/CE (option)	EN 837-1, Lloyd's Register, ATEX 94/9/CE (option)		EN 837-1, ATEX 94/9/CE (option)	DIN 16005			

Safety pattern gauge

- Stainless steel process connection for corrosive applications
- Robust construction
- Watertight and fillable with dampening liquid
- Standard or "turret" design for oil and gas application
- Blow out back and baffle wall
- Nace compliant



Model	MEP5	MPG6, MPE6	MAN7	
DN	100 mm	130 mm (4"½)	150 mm	
Pressure range	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	
Accuracy class	1.0	0.5 (Grade 2A)	1.0	
Case material	Stainless steel	Polypropylene (MPG6) Phenol (MPE6)	Stainless steel	
Sensing element material	Stainless steel, option: Monel	Stainless steel, option: Monel	Stainless steel, option: Monel	
Process connection	G½, ½NPT, M20x1.5	G½, ½NPT	G½, ½NPT	
Type of mounting	Bottom connection, panel mounting (3 back lugs fixing)	Bottom connection, panel mounting (back fixing)	Bottom or back connection, panel mounting flange	
Protection class	IP 65	IP 65	IP 52	
Approval	EN 837-1, Lloyd's Register, ATEX 94/9/CE (option)	ANSI B40.1	EN 837-1, ATEX 94/9/CE (option)	
Additional data	Fillable	Fillable	Not fillable	

Differential pressure gauge

- Low differential pressure
- High static pressure
- Stainless steel, Monel, Hastelloy



Model	MCD7	MX7, MZ7	MFT	
DN	150 mm	150 mm	100 and 150 mm	
Pressure range	0 ... 10 mbar to 0 ... 250 mbar	0 ... 0.1 to 0 ... 25 bar	0 ... 25 mbar to 0 ... 25 bar	
Static pressure	Max. 250 mbar	Max. 100 bar	Max. 400 bar	
Accuracy class	2.0	2.0	1.0	
Case material	Stainless steel	Stainless steel	Stainless steel	
Sensing element material	Stainless steel capsule	Two Stainless steel bellows	Stainless steel cell	
Process connection	G½, ½NPT	G½, ½NPT	G½, ½NPT, ¼NPT	
Type of mounting	Bottom connection, panel mounting (back fixing)	Bottom or back connections, panel mounting flange, pipe fitting	Wall mounting, panel mounting and mounting on 2" tube	
Protection class	IP 66	IP 65	IP 65	
Approval		ATEX 94/9/CE (option)	ATEX CE II 2 GD (option)	

Pressure gauge with electrical contacts

- All Stainless steel
- Local indication of the pressure
- Regulation or alarm actuation
- Intrinsically safe or explosion-proof version (conforms to ATEX)
- Chemical, Petrochemical, Energy or Gas industries

Model	MS5, MR5, DRCE 100, MCE	MG5	M17, M27, M37	
DN	100 mm	100 mm	150 mm	
Pressure range	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	-1 ... 0 to 0 ... 1600 bar -30"Hg to 0 ... 20.000 psi	
Accuracy class	2.5	1.6	2.5	
Set points	1 or 2	1 or 2	1 or 2	
Current rating	Dry contact / 0.4W-0.4VA min. 30W-50 VA max.	Inductive contact	Dry contact / 0.4W-0.4VA min. 30W-50 VA max. or inductive contact	
Case material	Stainless steel	Stainless steel	Stainless steel	
Sensing element material	Stainless steel	Stainless steel	Stainless steel	
Process connection	G½, ½NPT	G½, ½NPT	G½, ½NPT	
Type of mounting	Bottom or back connection, panel mounting flange	Bottom or back connection, panel mounting flange	Bottom or back connection, panel mounting flange	
Protection class	IP 65	IP 65	IP 65	
Approval	CE	CE, ATEX Ex ia	CE, ATEX Ex ia	

The broad product range contains first-class solutions for pressure measurement in demanding environmental conditions as in the petro-chemistry or in salt-water applications. In addition, we develop special solutions like for example for military and civil aeronautics or ship building. Many EPC-Contractors value Baumer as a competent partner for process instruments for the construction of refineries, power plants or water treatment plants.

Digital pressure switch

- Pressure control for industrial process management (level management, jack control, ...)
- Can be configured on site
- Auto-zero function
- Two set points, configured parameters of each threshold

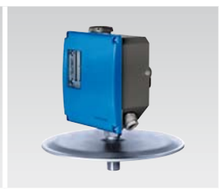



Model	CPX	TED5	TED6	
Pressure range	-1 ... 0 to 0 ... 600 bar	-1 ... 0 to 0 ... 400 bar	-1 ... 0 to 0 ... 400 bar	
Overpressure	Max. 800 bar	Max. 600 bar	Max. 600 bar	
Accuracy (Linearity, repeatability, hysteresis)	±0.5% F.S.	±0.5% F.S.	±0.5% F.S.	
Supply voltage	11 ... 40 VDC, unregulated	18 ... 32 VDC, unregulated	10 ... 32 VDC, unregulated	
Output signal	2 PNP switching out put	4 ... 20 mA, 3 wire, 2 isolated switching output	4 ... 20 mA, 2 wire, 2 PNP switching out put	
Process connection	G¼ EN837, G¼ DIN 3852-E, G½ EN 837, ¼NPT,½NPT	G¼, ¼NPT, G½, ½NPT, M20x1.5, G¼ female	G¼, ¼NPT, G½, ½NPT, M20x1.5, G¼ female	
Electrical connection	M12-5 plug	M12-8 plug	M12-5 plug	
Technology	Ceramic thick film	Ceramic thick film	Ceramic thick film	
Protection class	IP 65	IP 67	IP 67	
Approval		Lloyd's Register	Lloyd's Register ATEX Ex ia IIC T6 and T5 (YTED)	
Additional data	- Programmable by Flexprogrammer	- 300° swivelling version (option)	- 300° swivelling version (option)	

Mechanical pressure switch

- From vacuum to 600 bar
- All industrial environments
- Power generation safety equipments
- Intrinsically safe or explosion-proof version (conforms to ATEX)
- Nuclear versions





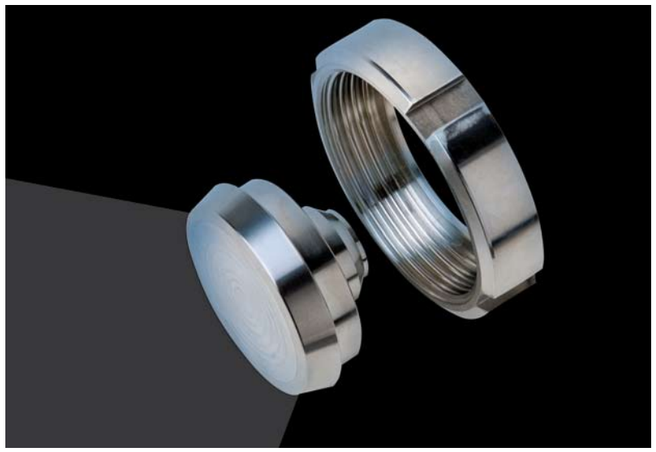
Model	RP2 series	RP series	RD series	
Pressure range	1 ... 100 bar	-50 ... 0 mbar to 60 ... 600 bar	-2.5 ... 2.5 mbar to 2.5 ... 30 bar	
Overpressure / Static pressure	Max. 200 bar	Max. 800 bar	0.15 ... 220 bar	
Reproducibility	±1% F.S.	±1% F.S.	±1% F.S.	
Current rating	10 mA ... 10 A, 250 VAC max. / 220 VDC max.	5 mA ... 10 A, 250 VAC max. / 220 VDC max.	5 mA ... 10 A, 250 VAC max. / 220 VDC max.	
Set points	1	1 or 2	1 or 2	
Measuring element	1.4404 (316L) Stainless steel	According to range and model: steel, Viton®, stainless steel, EPDM	According to range and model: steel, Viton®, stainless steel, EPDM	
Process connection	¼NPT, G½, ½NPT	G¼, ¼NPT, G½, ½NPT	G¼, ¼NPT, G½, ½NPT	
Housing / body material	Polyamide PA6 / Aluminium alloy	Aluminium alloy	Aluminium alloy	
Protection class	IP 66	IP 66	IP 66	
Approval	ATEX, Ex ia (RP2Y) ATEX, Ex d (RP2E)	ATEX, Ex ia (RPPY) ATEX, Ex d (RPPE)	ATEX, Ex ia (RDY) ATEX, Ex d (RDE)	

Diaphragm seal

Diaphragm seal

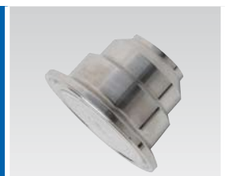
- All Stainless steel is the standard
- Various material
- PTFE, Halar or Gold coating
- Easy maintenance
- Cleaning-In-Place (CIP) and Sterilization-In-Place (SIP) without major disassembly and assembly work
- Flange connection for Chemical or Oil industries
- Thread connection for industrial uses

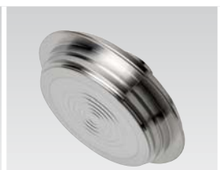
Model	D040, D041	D05x series	D1xx, D2xx, D3xx series	D6xx series		D4xx series				
Type	Single piece threaded connection	Flush diaphragm threaded connection	Standard threaded connection	Flanged connection		Flanged connection				
Pressure range	D040 : 0 ... 1 to 0 ... 16 bar D041 : 0 ... 16 to 0 ... 250 bar	0 ... 1 to 0 ... 600 bar	D1xx: 0 ... 4 to 0 ... 160 bar D12x: 0 ... 160 to 0 ... 1000 bar D2xx: 0 ... 1 to 0 ... 40 bar D3xx: 0 ... 0.16 to 0 ... 25 bar	-1 ... 0 to 0 ... 400 bar		-1 ... 0 to 0 ... 400 bar				
Wetted parts	Stainless steel	Stainless steel	Stainless steel, Hastelloy, Tantalum, Monel, Plastic	Stainless steel, Hastelloy, Tantalum, Monel, Plastic		Stainless steel, Hastelloy, Tantalum, Monel, Plastic				
Working temperature	-60 °C ... +200 °C	-60 °C ... +200 °C	-60 °C ... +200 °C	-60 °C ... +200 °C		-60 °C ... +400 °C				
Process connection	G¼, ¼NPT, G½, ½NPT, ¾NPT, ¼BSP-Tr, ½BSP-T	G¼, G½, ½NPT, G¾, ¾NPT, G1, 1NPT, G1½, 1½NPT, G2, 2NPT	G¼, ¼NPT, G½, ½NPT, G⅜, ⅜NPT,	ISO / ANSI / EN 1092-1 - Flanges		ISO / ANSI / EN 1092-1 - Flanges				



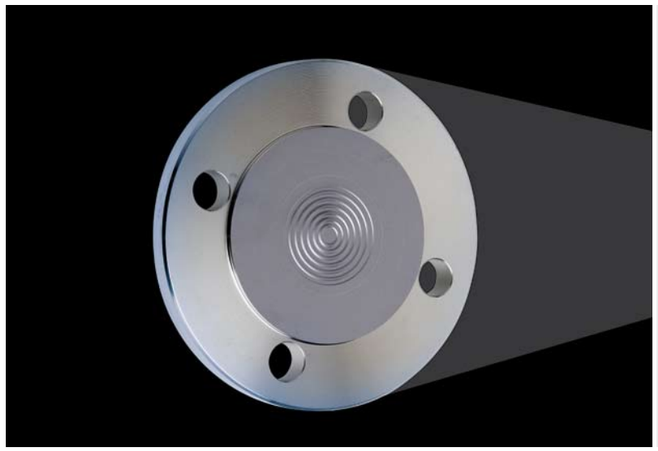
Diaphragm seal

- Hygienic connections for Food and Beverage or Pharmaceutical, 3A-approval
- Cleaning-In-Place (CIP) and Sterilization-In-Place (SIP) without major disassembly






Model	DANC - Clamp Diaphragm seals	DADL - Hygienic Diaphragm seals	DAVA - Varivent® Diaphragm seals	15xx, 16xx series
Pressure range	0 ... 1 to 0 ... 40 bar -1 ... 1.5 to -1 ... 39 bar	0 ... 1 to 0 ... 40 bar -1 ... 1.5 to -1 ... 39 bar	0 ... 1 to 0 ... 40 bar -1 ... 1.5 to -1 ... 39 bar	0 ... 1 to 0 ... 60 bar
Process connection	Clamp DN 25 ... 50 to NF, ISO, DIN	Hygienic with nut, smooth housing DN 25 ... 50 to DIN	Varivent® DN 25, 40, 125	Clamp ISO/DIN, SMS 1145, DIN 11851, Sterile connection
Media temperature	-20...+225 °C max.	-20 ... +150 °C max.	-20 ... +150 °C max.	
Operating temperature	-20 ... +225 °C Product specific application complies with FDA recommendations	-20 ... +150 °C Product specific application complies with FDA recommendations	-20 ... +150 °C Product specific application complies with FDA recommendations	-20 °C ... +150 °C
Special material	Hastelloy C276 on request	Hastelloy C276 on request	Hastelloy C276 on request	
Approval	3A-Sanitary standard	3A-Sanitary standard	3A-Sanitary standard	
Protection class	IP 65 (not air sensor)	IP 65	IP 65	
Additional data	- Material: stainless steel 1.4404 - Diaphragm laser welded - Diaphragm material stainless steel 1.4435 - Surface roughness Ra ≤ 0,8 µm - Option: e-polished	- Material: stainless steel 1.4404 - Diaphragm laser welded - Diaphragm material stainless steel 1.4435 - Surface roughness Ra ≤ 0,8 µm - Option: e-polished	- Material: stainless steel 1.4404 - Diaphragm laser welded - Diaphragm material stainless steel 1.4435 - Surface roughness Ra ≤ 0,8 µm - Option: e-polished	- Wetted parts: stainless steel - One-piece tubular seal



Diaphragm seal

- Flange connection for Chemical or Oil industries
- Various types of ISO and ANSI flanges
- High temperature applications up to 400°C
- Compatible with process pressure transmitters


Model	D902	D8xx series		
Pressure range	- Relative and differential min.10 mbar, absolute pressure. min. 50 mbar - Typical specifications: max. pressure: 100 bar	-1 ... 0 to 0 ... 400 bar		
Process connection	316L stainless steel flanges DN 10 ... 100 / 1/2" ... 4"	ISO / ANSI / EN 1092-1 - Flanges		
Wetted parts		Stainless steel, Hastelloy, Tantalum, Monel		
Media temperature	Max. +400 °C			
Operating temperature		-60 °C ... +400 °C		
Special material	Hastelloy C276 on request			
Additional data	- Material: stainless steel 1.4404 - Diaphragm: 316L stainless steel or Hastelloy C276 - Capillary tube: max. 12 m - Drain valve - Vent valve - Steam tracing	- Flush diaphragm threaded connection		