



- precision pressure transmitter for process industry
- nominal pressure: from 0...400 mbar up to 0...600 bar
- output signals: 2-wire: 4...20 mA
- HART® communication
- stainless steel sensor
- accuracy 0.1 % span
- turn-down 10.1
- two chamber aluminium die cast case or stainless field housing
- internal or flush welded diaphragm
- optional: integrated display and operating module, special materials as Hastelloy®and Tantalum, cooling element for media temp. up to 300°C

The process pressure transmitter CCA-Xi has been especially designed for the process industry as well as food and pharmaceutical industry (version stainless steel field housing) and measures vacuum, gauge and absolute pressure ranges of gases, steam, fluids up to 600 bar.

Di erent process connections such as threads and flanges with an internal or flush welded diaphragm are available and can be combined with a cooling element for media temperatures up to 300°C. The transmitter is as a standard equipped with HART®communication; the customer can choose between a two chamber aluminium die cast case or a stainless field housing.

PREFERRED AREAS OF USE ARE





Oil and gas industry / Chemical and petrochemical industry





Food / Pharmaceutical industry

TECHNICAL DATA

Pressure ranges 1												
Nominal pressure gauge / abs. ^{2,*}	[bar]	0.4	1	2	4	10	20	40	100	200	400	600
Overpressure	[bar]	2	5	10	20	40	80	105	210	600	1000	1000
Burst pressure	[bar]	3	7,5	15	25	50	120	210	420	1000	1250	1250
1 On customer request we	adjust the de	vices within	the turn-d	lown-nossi	hility by so	ftware to th	a required	nreceure r	anges			

² absolute pressure possible from 1 bar

Vacuum ranges						
Nominal pressure gaug	e* [bar]	-0.4 0.4	-1 1	-1 2	-1 4	-1 10
Overpressure	[bar]	2	5	10	20	40
Burst pressure	[bar]	3	7,5	15	25	50
*for 0 1 bar abs. or -1	. 0 bar gauge	e max.temperature 70°C				

Output signal / Supply						
Standard	2-wire: 4 20 mA with HART®-communication	Vs = 12 28 Vpc				
Current consumption	onsumption max. 25 mA					
Performance						
Accuracy ³	± 0.1 % span					
performance after turn-down (TD)						
- TD 5:1	no change of accuracy	en down E) (/ on on				
- TD > 5:1	the accuracy is calculated as follows: $0.1 + 0.015 \times (tur)$ e.g. turn-down 9: $0.1 + 0.015 \times (9 - 5) \% \text{ span} = 0.16 \%$					
Permissible load	$R_{\text{max}} = [(V_S - V_{S \text{ min}}) / 0.02 \text{ A}] \text{ W}$ load during	ng HART® communication: R _{min} = 250 W				
Influence e ects	supply: 0.05 % span / 10 V permissib	ole load: 0.05 % span / kW				
Long term stability	± 0.1 % span / year at reference conditions					
Response time	100 msec – without consideration of electronic damping	measuring rate 10/sec				
Adjustability	electronic damping: 0 100 sec offset 0 90 % s	span; turn-down of span up to 10:1				
³ accuracy according to EN IEC 62828-2	2- limit point adjustment (non-linearity, hysteresis, repeatability)					



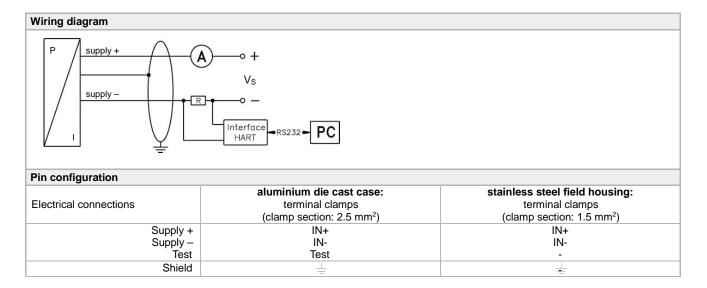


Tolerance band 4,5	0.2 % span x turn-down (in co	ompensated range -20) 85 °C)		
Permissible temperatures ⁶	medium:	liaan ail	without display	environment: storage:	-40 80 °C
	-40 125 °C for filling fluid silicon oil -10 125 °C for filling fluid food compatible oil		with display:	environment: storage:	-20 70 °C -30 80 °C
Permissible temperature medium		overpressure: -4		low pressure: -40	
for cooling element 7	filling fluid food compatible oil	overpressure: -1	0 250 °C	low pressure: -10) 150 °C
 for flange- and DRD-version: tolerar max. temperature of the medium for temperature of 50 °C (without cooling 	vence thermal e ects for o set and spance band o set $L \pm 1.6$ % span / tolerand nominal pressure gauge > 0 bar: 150 of element). Sed sealing material, type of seal and in	ce band span $\pounds \pm 0.6 \%$ s $^{\circ}$ C for 60 minutes with a r	span		
Electrical protection					
Short-circuit protection	permanent				
Reverse polarity protection	no damage, but also no functio	n			
Electromagnetic compatibility	emission and immunity accordi				
Mechanical stability					
Vibration	5 g RMS (25 2000 Hz) a	ccording to DIN EN 6	1068-2-6		
Shock		ccording to DIN EN 6			
Filling fluids	100 g / 11 mscc 2	locording to Diff Life of	0000 2 21		
	oiliann oil				
Standard	silicon oil	470.0570 ///	1-1-11 01 10 011	00. 0-1 01	- 114 NOT
Options for process connections	food compatible oil with 21CFR Registration No.: 141500) Halo			32; Category Cod	e: H1; NSF
	Registration No.: 141300) Halo	carbon and others on	request		
Materials	-1-1-1				
Pressure port	stainless steel 1.4435 (316L)		4 440 4 (0401)		
Housing	aluminium die cast, powder-coa	ated or stainless steel	1.4404 (316L)		
Cable gland	brass, nickel plated				
Viewing glass	laminated safety glass				
Seals (media wetted)	option: FFKM (r (min. permissible temperature f others on request option: welded version for press DRD and flange: none, not incl	sure ports according to	ium temperature or nominal p	s < 260 °C; ressure ranges P₁	,.
Diaphragm	standard: stainless steel 1.443				
	options for process connections			guest	
Media wetted parts	pressure port, seal, diaphragm	Tantalum (possible	nom i bar) on re	quest	
Miscellaneous	pressure port, sear, diaprilagin				
	EUEDO(itit		(l	and This is a sector	
EHEDG certificate Type EL Class I	- Clamp (C61, C62, C63): T-ring - Varivent (P41): EPDM-O-ring	g-seal from Combifit Ir		eai. This is e.g. fo	ır
Display (optionally)	LC-display, visible range 32.5 x indication ±9999; 8-digit 14-seg accuracy 0.1% ± 1 digit	22.5 mm; 5-digit 7-se			
Ingress protection	IP 67				
Installation position	any (standard calibration in a ved differing installation position ha	ve to be specified in the	ne order)		
Surface roughness	pressure port $R_a < 0.8 \mu m$ (med weld seam $R_a < 0.8 \mu m$			μm	
Weight	min. 400 g (depending on hous	ing and mechanical co	onnection)		
Operational life	> 100 x 10 ⁶ pressure cycles				
CE-conformity	EMC Directive: 2014/30/EU	Praesura Fo	nument Directiv	re: 2014/68/EU (m	nodule A) 8

HART® is a registered trade mark of HART Communication Foundation; Hastelloy® is a brand name of Haynes International Inc. Windows® is a registered trade mark of Microsoft Corporation

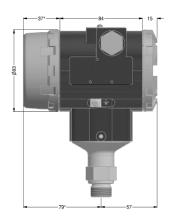


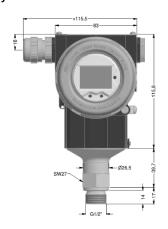
ELECTRICAL CONNECTION



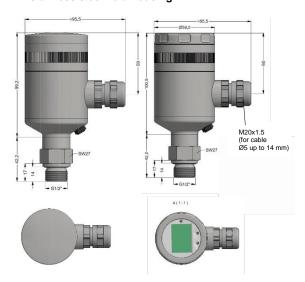
DIMENSION DRAWINGS

aluminium die cast case 9 with display



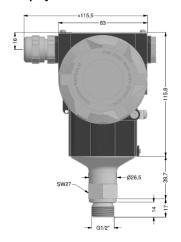


stainless steel field housing

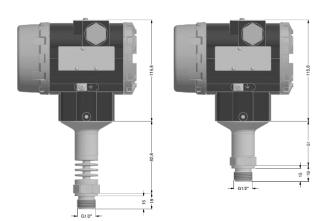


aluminium die cast case 9 without display





option with cooling element and without



for nominal pressure $P_N > 400$ bar increases the length of devices by 3 mm

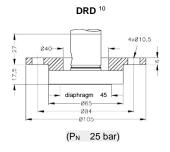


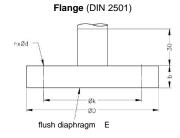
⁹ aluminium case is horizontally rotatable as standard dimensions in mm

Standard pressure ports



Process connections for low pressure - max. to 40 bar

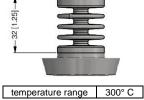




dimensions in mm					
size	DN25	DN50	DN80		
D	115	165	200		
Е	30	89	89		
k	85	125	160		
b	18	20	20		
n	4	4	8		
d	14	18	18		
PN [bar]	40	40	16		

.32 [1.25]-

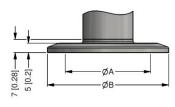
Cooling element 7



Flange (ANSI B16.5) nx ØdøD flush diaphragm E

dimensions in mm						
size	2"/150 lbs	3"/150 lbs				
D	152.4	190.5				
Е	86	89				
g	91.9	127				
k	120.7	152.4				
b	19.1	23.9				
n	4	4				
d	19.1	19.1				
PN [bar]	10	10				
ibaij						

Clamp (DIN 32676)



dimensions in mm								
size	3/4"	DN25	DN32	DN50				
Α	14	23	32	45				
В	25	50.5	50.5 50.5					
P _N [bar]	4 8	0,25 16	16	16				

17 [0.67] ØB ØC

Varivent® (DN 40/50)

P_N 25 bar



⁷ max. temperature depends on the used sealing material, type of seal and installation

¹⁰ mounting flange is included in the delivery (already pre-assembled)

ACCESSORIES

Accessories for aluminium cast (not a part of delivery)

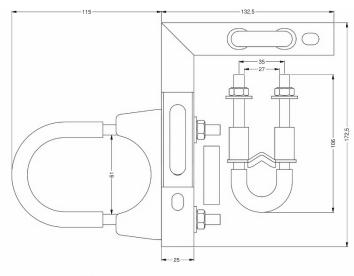
Electrical connection	
Ordering type	Ordering code
plug thread M20x1.5	1001871
cable gland thread M20x1,5	1001460

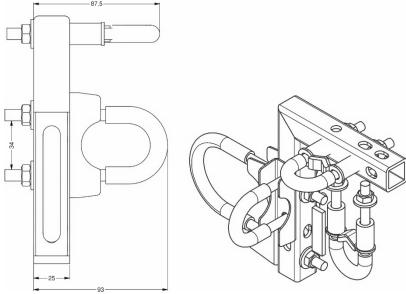
Universal holder	
Weight	cca 1 kg
Material	0308 (E235)
Surface finish	BIS UltraProtect 1000
Ordering code	5020043





Dimensions (in mm)







Programming kits for HART® - devices: CIS 150-RS232 and CIS 150-USB

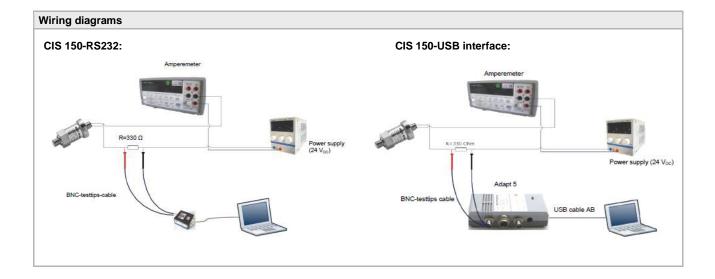
CIS 150-RS232



CIS 150-USB



	Programming software "Config 3.0" on CD operating manual
Package contents	CIS 150-RS232: HART® modem (MH-02 Manufacturer: JSP NOVÁ PAKA) connecting cable BNC-Testtip (for measuring device) 9-pin connecting cable RS232 (for PC)
	CIS 150-USB: Adapt 5 connecting cable BNC-Testtip (for measuring device) USB connecting cable – Type A to Type B – (for PC)
System requirement	For the installation of the software, a Windows® PC (95, 98, ME, 2000, NT, XP) with serial interface (RS 232) or USB-interface is required



Ordering codes Version: Ordering code: HART(R) modem with RS232 connection cable for PC CIS 150-RS232 Adapt 5 with USB connection cable for PC **CIS 150-USB** Windows® is a registered trade mark of Microsoft Corporation





ORDER CODE

	CCA-Xi
Pressure	
Gauge	5 1 1
Absolute ¹	5 1 2
Input [bar] 0 0,4 bar ¹	4 0 0 0
0 1,0 bar	1 0 0 1
0 2,0 bar	2 0 0 1
0 4,0 bar	4 0 0 1
0 10 bar	1 0 0 2
0 20 bar 0 40 bar	2 0 0 2 4 0 0 2
0 100 bar	1 0 0 3
0 200 bar	2 0 0 3
0 400 bar	4 0 0 3
0 600 bar	6 0 0 3
-0,4 0,4 bar -1 1 bar	S 4 0 0
-1 2 bar	V 2 0 2
-1 4 bar	V 4 0 2
-1 10 bar	V 1 0 3
Customer	9 9 9 9
Design Aluminium bousing - with display (IP 67)	
Aluminium housing - with display (IP 67) Aluminium housing - without display (IP 67)	A 0 A N
Stainless steel field housing - with display (IP 67)	FV
Stainless steel field housing - without display (IP 67)	F N
Output	
HART® - 4 20 mA / 2-wire	H
Customer	9
Accuracy 0,1 % - standard range	1
0,1 % - standard range including Calibration Certificate	P
0,1 % - customer range	
0,1 % - customer range including Calibration Certificate	н
Customer	9
Electrical connection Terminal clamp - Aluminium housing	A K 0
Terminal clamp - Stainless Steel field housing	8 8 0
Customer	9 9 9
Mechanical connection	
G 1/2" DIN 3852	1 0 0
G 1/2" DIN 3852 G 1/2" EN 837	2 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852	2 0 0 3 0 0
G 1/2" DIN 3852 G 1/2" EN 837	2 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852	2 0 0 0 3 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port	2 0 0 0 3 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush (P _N > 2,5 bar) (only with seals) ³	2 0 0 0 3 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush (P _N > 2,5 bar) (only with seals) ³ M 20 x 1,5 DIN 3852 flush (P _N > 2,5 bar) (only with seals)	2 0 0 0 3 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush (P _N > 2,5 bar) (only with seals) ³	2 0 0 0 3 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush (P _N > 2,5 bar) (only with seals) M 20 x 1,5 DIN 3852 flush (P _N > 0,6 bar) (only with seals) G 3/4" DIN 3852 flush (P _N > 0,6 bar) (only with seals)	2 0 0 0 3 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar}) \text{ (only with seals)}$ G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush	2 0 0 0 3 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) ³ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush (only with seals)	2 0 0 0 3 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) ³ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$	2 0 0 0 3 0 0 5 0 0 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 - open port G 1/2" DIN 3852 flush ($P_N > 2,5$ bar) (only with seals) ³ M 20 x 1,5 DIN 3852 flush ($P_N > 0,5$ bar) (only with seals) G 3/4" DIN 3852 flush ($P_N > 0,6$ bar) (only with seals) G 1 1/2" DIN 3852 flush ($P_N > 0,25$ bar) (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush ($P_N > 0,25$ bar) G 1" DIN 3852 flush ($P_N > 0,25$ bar) G 1/2" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar) G 1/2" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar)	2 0 0 0 3 0 0 5 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) ³ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$	2 0 0 0 3 0 0 5 0 0 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) ³ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2 O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2 VO ring $(P_N > 0,25 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2 VO ring $(P_N > 1 \text{ bar})$	2 0 0 0 3 0 0 5 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 ropen port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) ³ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" flush cone seal $(P_N > 0,25 \text{ bar})$ (without seals) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals)	2 0 0 0 3 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar}) \text{ (only with seals)}$ G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals) monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals)	2 0 0 0 3 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 - open port G 1/2" DIN 3852 flush ($P_N > 2,5$ bar) (only with seals) M 20 x 1,5 DIN 3852 flush ($P_N > 2,5$ bar) (only with seals) G 3/4" DIN 3852 flush ($P_N > 0,6$ bar) (only with seals) G 1" DIN 3852 flush ($P_N > 0,25$ bar) (only with seals) G 1 1/2" DIN 3852 flush ($P_N > 0,25$ bar) (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar) G 1/2" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 1" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush ($P_N > 0,25$ bar) Clamp DN 3/4" (4 bar < $P_N < 8$ bar) (without seals) Clamp DN 1" (DN 25) (0,4 bar < $P_N < 16$ bar) (without seals)	2 0 0 0 3 0 0 5 0 0 6 6 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar}) \text{ (only with seals)}$ G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals) monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals)	2 0 0 0 3 0 0 5 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush only with seals) G 2" DIN 3852 flush only with seals) G 1" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" flush cone seal $(P_N > 0,25 \text{ bar})$ (without seals) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ (without seals) Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 1" (DN 30) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals)	2 0 0 0 3 0 0 5 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" flush cone seal $(P_N > 0,25 \text{ bar})$ (without seals) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ (without seals) Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 40 $(P_N > 0,4 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals)	2 0 0 0 3 0 0 5 0 0 0 5 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar}) \text{ (only with seals)}^3$ M 20 x 1,5 DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 1" DIN 3852 flush $(P_N > 0,6 \text{ bar}) \text{ (only with seals)}$ G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar}) \text{ (only with seals)}$ G 2" DIN 3852 flush (20 x 20	2 0 0 0 3 0 0 5 0 0 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 40 $(P_N > 0,4 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 50 (without seals)	2 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals, monel pressure port, tantal membrane) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 40 $(P_N > 0,25 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals)	2 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 - open port G 1/2" DIN 3852 flush ($P_N > 2,5$ bar) (only with seals) M 20 x 1,5 DIN 3852 flush ($P_N > 2,5$ bar) (only with seals) G 3/4" DIN 3852 flush ($P_N > 0,6$ bar) (only with seals) G 3/4" DIN 3852 flush ($P_N > 0,25$ bar) (only with seals) G 1 1/2" DIN 3852 flush ($P_N > 0,25$ bar) (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush (only with seals) G 1" DIN 3852 flush 2x O ring ($P_N > 0,25$ bar) G 1/2" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 3/4" DIN 3852 flush 2x O ring ($P_N > 1$ bar) G 1" Rush cone seal ($P_N > 0,25$ bar) (without seals) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush ($P_N > 0,25$ bar) (without seals) Clamp DN 3/4" (4 bar < $P_N < 8$ bar) (without seals) Clamp DN 1" (DN 25) (0,4 bar < $P_N < 16$ bar) (without seals) Clamp DN 2" (DN 50) (0,4 bar < $P_N < 16$ bar) (without seals) DIN 11851 DN 25 ($P_N > 0,6$ bar) (without seals) DIN 11851 DN 50 ($P_N > 0,25$ bar) (without seals) DIN 11851 DN 50 ($P_N > 0,25$ bar) (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 50 (without seals)	2 0 0 0 3 0 0 5 0 0 5 0 0 0 5 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals, monel pressure port, tantal membrane) 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 40 $(P_N > 0,25 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals)	2 0 0 0 3 0 0 5 0 0 8 0 0 0 8 0 0 0 0 8 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush only with seals) G 1" DIN 3852 flush only with seals) G 1" DIN 3852 flush only with seals) G 1"DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar $< P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) Flange DN 25/PN 40 DIN 2501 (without seals)	2 0 0 0 3 0 0 5 0 0 6 8 0 0 0 8 0 0 0 8 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush (PN > 0,25 bar) (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) (0,4 bar < $P_N < 16 \text{ bar})$ (without seals) Clamp DN 1" (DN 50) (0,4 bar < $P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,6 \text{ bar})$ (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) Flange DN 25/PN 40 DIN 2501 (without seals) Flange DN 40/PN 40 DIN 2501 (without seals) Flange DN 50/PN 40 DIN 2501 (without seals) Flange DN 80/PN 16 DIN 2501 (without seals)	2 0 0 0 3 0 0 5 0 0 8 0 0 8 0 0 0 8 0 0 0 8 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 - open port G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush (P _N > 0,25 bar) (only with seals) G 2" DIN 3852 flush (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 16 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) Clamp DN 2" (DN 50) $(0,4 \text{ bar} < P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 40 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,25 \text{ bar})$ (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 25 (without seals) "sandwich" DN 250 (without seals) Flange DN 40/PN 40 DIN 2501 (without seals) Flange DN 50/PN 40 DIN 2501 (without seals) Flange DN 80/PN 16 DIN 2501 (without seals) Flange DN 80/PN 16 DIN 2501 (without seals) Flange DN 80/PN 16 DIN 2501 (without seals)	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
G 1/2" DIN 3852 G 1/2" EN 837 G 1/4" DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 DIN 3852 M 20 x 1,5 EN 837 1/2" NPT G 1/2" DIN 3852 - open port G 1/2" DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) M 20 x 1,5 DIN 3852 flush $(P_N > 2,5 \text{ bar})$ (only with seals) G 3/4" DIN 3852 flush $(P_N > 0,6 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1" DIN 3852 flush $(P_N > 0,25 \text{ bar})$ (only with seals) G 1 1/2" DIN 3852 flush (PN > 0,25 bar) (only with seals) G 2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 1/2" DIN 3852 flush 2x O ring $(P_N > 0,25 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 3/4" DIN 3852 flush 2x O ring $(P_N > 1 \text{ bar})$ G 1/8" NPT (without seals, monel pressure port, tantal membrane) 1" NPT flush $(P_N > 0,25 \text{ bar})$ Clamp DN 3/4" (4 bar < $P_N < 8 \text{ bar})$ (without seals) Clamp DN 1" (DN 25) (0,4 bar < $P_N < 16 \text{ bar})$ (without seals) Clamp DN 1" (DN 50) (0,4 bar < $P_N < 16 \text{ bar})$ (without seals) DIN 11851 DN 25 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,6 \text{ bar})$ (without seals) DIN 11851 DN 50 $(P_N > 0,6 \text{ bar})$ (without seals) "sandwich" DN 50 (without seals) "sandwich" DN 50 (without seals) Flange DN 25/PN 40 DIN 2501 (without seals) Flange DN 40/PN 40 DIN 2501 (without seals) Flange DN 50/PN 40 DIN 2501 (without seals) Flange DN 80/PN 16 DIN 2501 (without seals)	2 0 0 0 3 0 0 5 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



	CCA-Xi	-	-Щ	H	
Diaphragm					
Stainless steel 1.4435 (316 L)	1			П	
Hastelloy ® C-276 (2.4819) ⁴ Tantalum ^{4,5}	н				
	T				
Customer	9			ш	
Seals (included only in thread type connections)					
Without seals (Clamp, dairy pipe DIN, sandwich, flange, varivent)		0			
Viton (FKM)		1		ш	
EPDM		3			
FFKM (for media temperature 200 °C) 6		7			
Without seals - welded (only with EN 837) 7,8		2			
Customer		9			
Filling Fluids					
Silicone oil		1			
Food compatible oil (temperature max. 150 °C) ⁴		2			
Halocarbon ⁴		С			
Customer		9			
Special version					
Standard			0 0	0 0	
With cooling element from 125 °C up to 150 °C			1 5	0	
With cooling element from 150 °C up to 300 °C (P _N 70 bar max. 20	00 °C permanent) ⁴		2 0	0 0	
Customer			9 9	9	
Accessories for aluminium cast					
Plug thread M20x1,5				1	001871
Cable gland thread M20x1,5				1	001460
Universal holder (for pipes 26,5 mm)				5	5020043

If setting range shall be di erent from nominal range please specify in your order

- 1 absolute pressure possible from 1 bar
- 3 only possible for P_N 1 bar up to 40 bar
- 4 only possible with process connections
- 5 tantal diaphragm possible with nominal pressure ranges from 1 bar 6 min. permissible temperature from -15°C, possible for nominal pressure ranges $P_N = 100 \ bar$
- 7 only for P_N 40 bar
- 8 welded version only with pressure ports according to EN 837

!!! When you make an order it is necessary to fill the questionnaire for transmitters with separators!!!

Manufacturer reserves the right to change sensor specifications without further notice.



