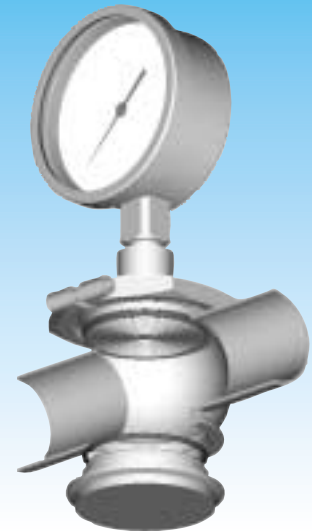


Diaphragm-type chemical seal

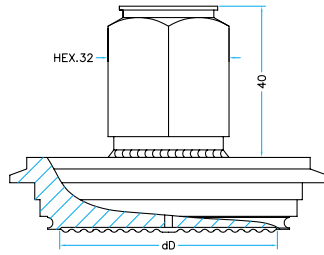
process connection flanged	pipe size	1 1/2" ... 3" DN40 ... 80	4" DN100
max. process pressure in bar at 20 °C		25	20
min. span for GP & AP in mbar		600	600
min. span for DP in mbar		100	100
min. pressure range for PI in bar		0,6	0,6
max. capillary length in meter		15	15
min./max. process temperature in °C		-30/+180	-30/+180

for correct use of limitations see introduction page 6



- Tuchenhagen Varivent® diaphragm seal

description	standard model	options available
process connection		
clamp acc. Tuchenhagen Varivent®	suitable for various in-line connections acc. Tuchenhagen Varivent®	custom-design; including clamp
wetted parts		
process connection	AISI-316 L	
diaphragm	AISI-316 L	coating: ETFE; FEP; PFA; PTFE; PVDF; gold; silver
instrument connection		
instrument connection	capillary tubing (top entry)	1/2" BSP female
features		
capillary	AISI-316	
armour	stainless steel	protection sleeve of PVC
sealing oil	silicone type BSO 22	others see table 1 - page 55
sealing ring		EPDM (FDA); FFKM; FPM; NBR; PTFE TNL (silicone)
full welded construction		for all instruments



**minimum span in mbar
for GP, AP & DP**

transmitter type		
GP	AP	DP
600	600	100

**process
connection**

dD (mm)
59

**minimum range in bar
for pressure indicator**

size of PI (mm)		
ø 63	ø 100	ø 160
0,6	0,6	0,6

**temperature effect in mbar per +10 °C
for GP, AP & DP**

transmitter type			seal	capillary /mtr
GP	AP	DP		
1,85	1,85		2,65	3,90
		0,05	0,66	0,63

**process
connection**

dD (mm)
59

**temperature effect in mbar per +10 °C
for pressure indicator**

pressure (bar)	size of PI (mm)			seal	capillary /mtr
	ø 63	ø 100	ø 160		
≤ 25	3,5	15,0	20,0	2,7	5,0

measured from 20 °C

	PI	GP	DP	standard included	PI	GP	DP	additional
		AP				AP		
tests	•	•	•	calibration test at 20 °C		•	•	calibration test at simulated process conditions (8h)
	•	•	•	helium test		•	•	static pressure test at 20 °C (8h)
			•	static pressure test at 20 °C		•	•	vacuum test at 20 °C (8h)
					•	•	•	dye penetrant test for pressurized welds
certificates		•	•	calibration test certificate	•			calibration test certificate
					•	•	•	conformity certificate on pressurized parts (2.2)
documents	•	•	•	directions for use	•	•	•	technical information set