

# Chemical seal type W Fully welded (monoblock)

Chemical seal is used to prevent the measured medium from entering the measuring mechanism of the pressure gauge. It is used when measuring the pressure of solidifying, crystallising or hot liquids or where it is necessary to ensure that the system can be cleaned from product residues.

Type W is made as a non-detachable weldment. If a nozzle is included between the chemical seal and the pressure gauge during assembly, a high effect in damping pressure surges is obtained. The damping effect is almost independent of temperature and the nozzle can never become clogged.

#### Material:

- Diaphragm: stainless steel SS 316L / 1.4435 (other on request)
- Body: stainless steel SS 316L / 1.4404

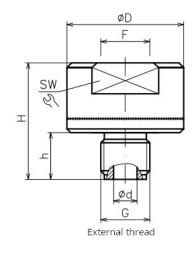
#### Pracovní teplota:

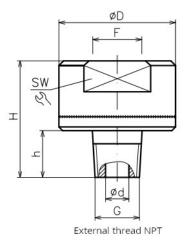
- Medium: -20 ... +100 °C (direct connection)
- Medium up to 400°C (when connected with a heat sink)
- Ambient: -20 ... +60°C
- other conditions on request

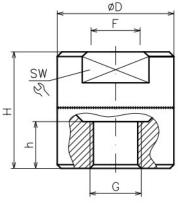
Chemical seal types - different types of G and F threads can be combined.

BHV	PN	F	G		D	SW
type	[bar]		external (through hole Ød)	Internal hole	[mm]	[mm]
W32	250	G 1/2"	G 1/2" (through hole 8 mm)		Ø 32	SW 27
W40	160	G 1/4" G 1/2"		G 1/4" G 3/8" G 1/2" M20x1,5 1/4" NPT 1/2" NPT	Ø 40	SW 32
W50	40	G 1/4" G 1/2"		G 1/4" G 3/8" G 1/2" M20x1,5 1/4" NPT 1/2" NPT	Ø 50	SW 41

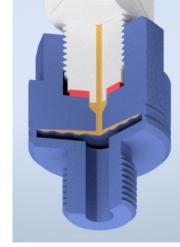








Internal thread



rev. 2023-12

#### Height of the chemical seal H [mm]:

G - External thread	h [mm]	F (G1/4")	F (G1/2")					
G1/4", ¼" NPT	12							
G3/8"	16	H = h + 27	H = h + 30					
G1/2", M20x1,5, ½" NPT	20							
G - Internal thread	h [mm]	F (G1/4")	F (G1/4")					
G1/4", ¼" NPT	12							
G3/8"	16	H = h + 23	H = h + 26					
G1/2", M20x1,5, ½" NPT	20							

#### Minimum recommended pressure gauge range:

Turna of chamical coal	Nominal gauge size		
Type of chemical seal	DN 63	DN100	
W40	1,0 bar	2,5 bar	
W50	1,0 bar	1,0 bar	

## Special designs

Typ W40 / PN 400

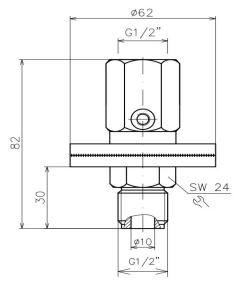
(threads on request)



# Typ W60 / PN 40 with conical shape (threads on request)



**Typ W62 / PN 40** (with threads G1/2" - other on request)





### Assembly with measuring instrument:

The most common assembly of the chemical seal is with a manometer or transmitter by direct connection (F-thread), it can be adapted for a variant with an extended neck, cooler or capillary line.