

WILLBRANDT Wall Seal Type 65

DN 80 - DN 5000

Type 65 is a freely moulded rubber wall seal that is designed and manufactured according to your specifications and construction dimensions. The connection can be via clamp, flange or a combination of these. There are also a large number of rubber qualities available, which means that you can select a suitable rubber compound for almost any application (see the material descriptions on the following pages).

Type 65 is used in power stations, plant engineering, valve shafts, power houses and pumping stations, where it is used to seal pipes from groundwater, and to compensate building settlement and shear forces.



Bellow design	Reinforced rubber bellow available in corrugated and uncorrugated versions. There is a choice of connection: cylindrical ends for fixing clamps and/or internal or external solid rubber flanges to accommodate backing/clamping flanges.	Fixing	Both flange connection and cylindrical ends for fixing clamps possible.
Pressure resistance	Max. internal pressure: 2.5 bar. In the case of external pressure (e.g. groundwater) please use a supporting ring.	Supporting ring	In the case of external pressure (e.g. groundwater) please use a supporting ring.
		Accessories	<ul style="list-style-type: none"> - Supporting ring - Potential equalisation - Drainage hose - Earth cover/sun protection hoods

Specifications

Bellow		Core (inner)	Bellow design Reinforcement	Cover (outer)	Max. temperature °C
Colour-code	Colour marking				
red		EPDM	Polyamide	EPDM	100
blue		EPDM TW	Polyamide	EPDM	100
white-red		EPDM beige	Polyamide	EPDM	100
green		CSM	Polyamide	CSM	100
yellow		NBR	Polyamide	CR	90
grey		CR	Polyamide	CR	80

Application

Type 65 red (EPDM)

For water, sea water, cooling water with glycol or other chemical additives for treating water, saline solutions, weak acids and weak alkali solutions. Unsuitable for aliphatic, aromatic and chlorinated hydrocarbons, oil or oily media.

Type 65 blue (EPDM TW)

Like Type 65 red, but approved for drinking water.

Type 65 white-red (EPDM beige)

Like Type 65 red, but with rubber in food-grade.

Type 65 green (CSM)

For chemicals, aggressive, chemical wastewater and compressor air containing oil.

Type 65 yellow (NBR)

For oils, fats, gases, diesel fuels, kerosene and crude oil. Not suitable for aromatic and chlorinated hydrocarbons, esters and ketones.

Type 65 grey (CR)

For water, wastewater, swimming pool water, salt water, cooling water with anti-corrosive products containing oil, oil mixtures and compressed air containing oil.

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Type 65-0

with cylindrical ends on both sides for fixing clamps, pressure: 1 bar, up to DIN 1000

Type 65-1

Flange connection on both sides, freely selectable flange standard, pressure: -0.5 to +2.5 bar, up to DN 4000

Type 65-2

Flange connection on both sides, corrugated, freely selectable flange standard, pressure: 2.5 bar, without supporting ring, up to DN 4000

Type 65-2S

Flange connection on both sides, corrugated, with supporting ring, freely selectable flange standard, pressure: -1 to +2.5 bar, up to DN 4000

Example of installation - Earth protection cover

in ground with earth protection cover and bellow with inner supporting ring, up to DN 4000

Recommended installation

for wall seals with pressures greater than 2.5 bar, we recommend a rubber expansion joint solution up to DN 4000, this makes pressures up to 30 bar possible.

Example of dimensions - Type 65-2

Wall pipe*1 DN 1 min.	Medium pipe*1		Overall length*2 BL mm	Bellow WF*3 mm ²	Movement absorption*4			
	DN 2	PN			axial - mm	axial*5 + mm	lateral ± mm	angular ± ∠°
200	80	PN 10	200	1057	45	17	26	7.7
250	100	PN 10	200	1057	45	26	26	7.7
300	125	PN 10	200	1365	45	26	36	9.8
350	150	PN 10	200	1712	45	26	35	7.4
400	200	PN 10	200	2098	45	26	35	7.4
450	250	PN 10	200	2524	45	26	34	5.9
500	300	PN 10	200	2988	45	26	34	5.9
600	350	PN 10	200	4036	45	26	33	5.0
700	450	PN 10	200	5240	45	26	33	4.2
700	500	PN 10	200	5240	45	26	33	4.2
800	600	PN 10	200	6601	45	26	33	3.7
1000	700	PN 10	200	9794	45	26	32	3.0
1000	750	PN 10	200	9794	45	26	32	3.0
1050	800	PN 10	200	10691	45	26	31	2.5
1200	900	PN 10	200	13616	45	26	31	2.5
1300	1000	PN 10	200	15762	45	26	31	2.1
1500	1100	ANSI B16 150 lbs	200	20525	45	26	31	1.9
1500	1200	PN 6	200	20525	45	26	31	1.9
1700	1300	ANSI B16 150 lbs	200	25917	45	26	30	1.7
1700	1400	PN 6	200	25917	45	26	30	1.7
2000	1500	ANSI B16 150 lbs	200	35181	45	26	30	1.5

*1 Catalogue example for a medium pipe according to DIN standards. Other standards (e.g. ANSI, BS, JIS) are also available.

*2 Other overall lengths possible.

*3 WF = effective area

*4 It is also possible to provide the wall seal with greater movement by altering the overall length.

*5 If an internal supporting ring (Type 65-2S) is used, the axial+ movement is reduced to 9 mm.

Important information

For aggressive media, please see the resistance table (can be requested separately).

The bellows should not be painted or insulated. Please refer to the installation instructions.

++++ We will be happy to send you further information on the individual types and designs. +++++