

High pressure pump connectors

by Belman Production A/S



Reduce oscillations in the way of sound and vibrations.

- two functions in one compensator.

Properties

The high pressure pump connectors ensure via the flexible bellow and the rubber elements, at the tie rods, maximum reduction of vibration and maximum noise reduction.

High pressure pump connectors can take high temperatures. The built-in length is the same as most rubber compensators, which ease the planning and replacement.

- Smaller installation inaccuracies and misalignments between pipelines and pumps and other equipment are equalized.
- In doing so a severe reduction of forces and torques on pumps and other equipment in the pipeline is achieved.
- Reduction of oscillations (sound and vibration) into the pipeline from pumps and other equipment is achieved.
- The multilayer bellow ensures a soft flexible bellow.
- The built-in length is as standard 130 mm no matter the type, diameter and design pressure.
- Design pressure: 16 bar in standard finish.

Applications

- In pipelines and installations where vibrations and stress is to be reduced.
- Pumps, compressors, engines, burners etc.
- House installations, industrial installations.
- Heating-, climate-, ventilation-, and heat recovery installations.
- Gas-, water- and sewage treatment plants.



Standard construction

Bellow: 1.4571 or 1.4541.

Flanges: P265 GH and according to DIN 2501 PN16.

Tie rods: Galv. Steel

Rubber sleeves: NBR (to 100°C, at higher temperatures metallic springs are used).

Other materials on request.

Advantages

- Is opposite a rubber compensator resistant towards ageing, high temperatures, UV-radiation and most aggressive medias.
- Quick delivery.
- With loose flanges that ease the installation.
- Increase the dependability and the comfort and significantly prolong the service life of the pipeline and connected equipment.
- Certified manufacturer.
- Significantly longer service life than rubber compensators.
- Tie rods ensures minimum fixation of pipeline and equipment. If required for, high pressure pump connectors are available without tie rods; however fixation of the pipeline must be taken into account.

DN	BL mm	Bewegung axial		Bewegung lateral		Federkonstante		Gewicht	
		$\Delta X[8000]$ mm	$\Delta X[10e7]$ mm	$\Delta lat[7000]$ mm	$\Delta lat[10e7]$ mm	axial N/mm	lateral N/mm	mit Zugankern kg	ohne Zuganker kg
40	130	12	4	8	2	196	65	5,8	3,9
50	130	13	4	7	2	215	102	5,8	5,3
65	130	14	4	6	2	179	140	6	6,5
80	130	15	5	6	2	330	328	7,8	6,7
100	130	15	5	4	1	331	696	8,8	8,9
125	130	17	5	3	1	302	969	16,5	12,2
150	130	23	6	4	1	248	960	19,5	15,6
200	130	23	6	3	1	254	1680	54,1	48
250	130	24	6	3	1	303	3114	58	51
300	130	22	6	2	1	479	8714	93	80

Movements: High pressure pump connectors are calculated according to EJMA (Standards of Expansion Joint Manufacturers Association). The movements are either specified at pure axial movement (ΔX) and pure lateral movement (ΔY), and for each dimension determined at respectively 8000 movements and 10e7 (10.000.000) movements.

