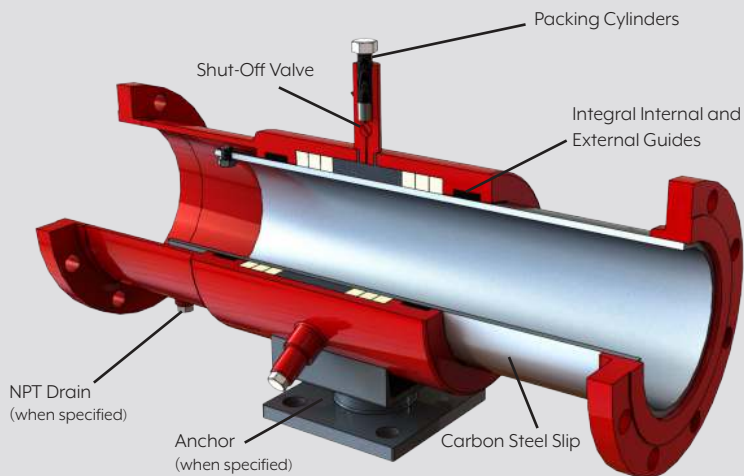


THE METRAPAK IS A PACKED EXPANSION JOINT THAT FEATURES A SLIP THAT CAN BE REPACKED, WHILE IN SERVICE.



The Metraflex MetraPak has been designed for the specific service conditions, if application differs from information on tag, please notify factory.

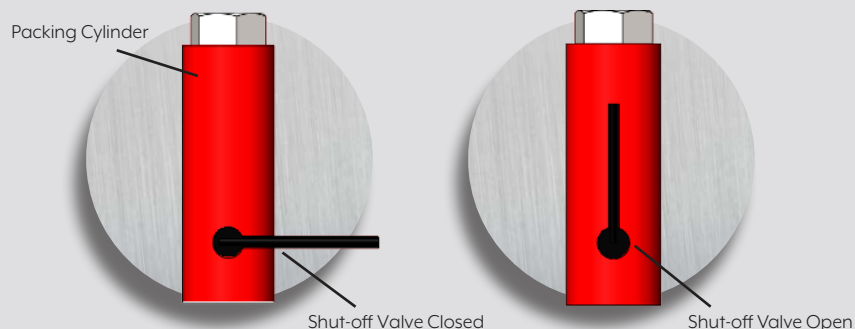
Pipe and MetraPak joint must be properly aligned. The packed / slip type expansion joint is designed to accommodate axial movement only. Misalignment due to improper installation or anchor or guide failure can result in joint leakage due to uneven packing wear, slip damage or slip binding. Proper attention paid to installation and operating procedure will assure a long trouble-free life. Protect the slip at all times. A smooth slip is essential to prevent leakage. **Joint must be installed with the packing cylinders accessible.**

STARTUP PACKING ADJUSTMENT

When the MetraPak expansion joints are manufactured, they are initially packed at the factory. The packing is injected into the stuffing box at ambient temperature. Since most packings will compress further under heat, a leak may develop when bringing a MetraPak up to operating temperature. It is imperative, if there is any leakage, that additional packing be injected right away until the leaks stop. Newly installed packed joints should be closely monitored for leaks.

PACKING ADJUSTMENT

During normal operation, the shut off valve should be in the off position, with the plunger handle perpendicular to the packing cylinder. To add packing, confirm that the shut off valve is in the closed position. Remove the packing plunger from the packing cylinder. Insert the packing plug into the packing cylinder*. Reinstall the packing plunger until it is snug against the packing plug. Open the shut off valve and continue to tighten the packing plunger until it bottoms out on the packing cylinder. Turn off the shut off valve. This procedure may need to be repeated depending on severity of leakage or repeat as needed.



MAINTENANCE

SLIP MAINTENANCE – The slip has a hard, corrosion resistant, highly polished surface which slides through the packing. To extend the life of the slip, the slip should be cleaned periodically. Remove any residue or dirt from the slip. Care must be taken to not scratch or score the slip.

LEAK MONITORING – It is very important that any leakage through the packing be stopped immediately. If the leak is allowed to continue it may cut channels through both the packing and the slip, possibly requiring the slip and packing to need to be replaced.

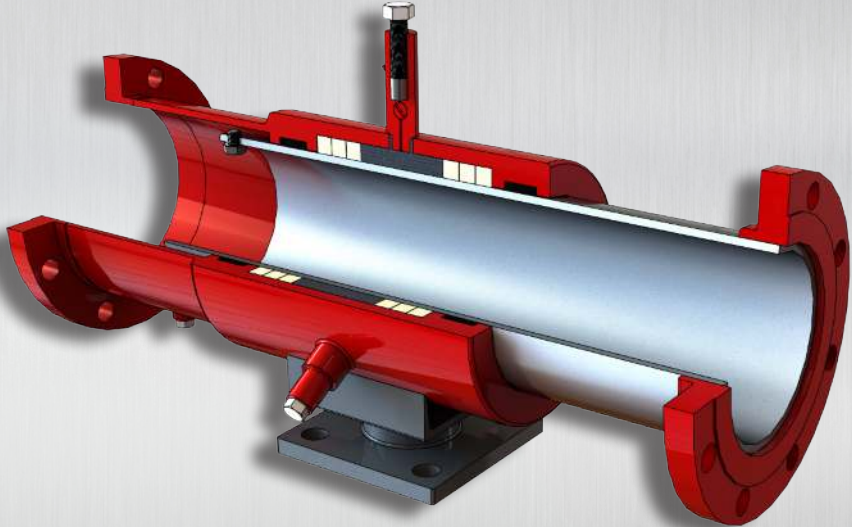
INSPECTION – Alignment guides, pipe supports, anchors and the MetraPak itself should be inspected annually for proper operation. It is also suggested that the MetraPak be inspected during shut down and start up cycles. **See back for guide spacing requirements.**

*To ensure proper functioning and warranty, it is recommended that only spare packing supplied by Metraflex be used when repacking a joint in the field.

GUIDE SPACING REQUIREMENTS

Nominal Size NPS	First Guide Spacing	Intermediate Guide Spacing					Support Spacing	
		100 psig	150 psig	200 psig	300 psig	400 psig	Water (feet)	Gas (feet)
(inch)	(feet)							
2	2	12	11	11	10	9	10	13
2 1/2	2 1/2	16	15	14	13	12	11	14
3	3	20	18	17	15	14	12	15
4	4	25	23	21	19	17	14	17
5	5	31	28	26	23	20	16	18
6	6	37	34	31	27	24	17	21
8	8	49	43	39	34	30	19	24
10	10	61	53	48	41	36	22	27
12	12	70	61	54	46	41	23	30
14	14	74	64	57	49	43	25	32
16	16	81	70	62	53	46	27	35
18	18	88	75	67	56	50	28	37
20	20	94	80	71	60	53	30	39
24	24	105	90	79	66	58	32	42

THE METRAPAK PACKED EXPANSION JOINT



Metraflex
for pipes in motion



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INFORMATION PACKET

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