






## CONTROLSTAR FIV HT

Installation ready Control Valve Kits

### Characteristics

- This Hybrid Control Valve packing design combines the safety against extrusion provided by the Inconel matrix reinforced eGraphite Yarns and the pliability of Carbon Fiber reinforced eGraphite Yarns, integrated with the low thermal expansion and flexibility of expanded Graphite. The 5-Ring Sets create the optimum sealing configuration for long term reliability even in temperature cycling situations.
- The external packing rings contain an ultra thin inconel wire matrix to eliminate extrusion. All the rings utilize an inorganic passive corrosion inhibitor to protect against valve stem pitting. All rings are die-formed for exact fit and increased sealability.

### Operating range

			
p [psi]			4350
t °F	-330 . . . +1200		
pH	0 - 14		

Practical useful application data:  
max. temperature in oxidizing  
atmosphere +840 °F

### Main application

- Controlvalves

### Suitable for

- All Industries

### Function components of Live Loading System



The Proload Live Loading System assembly fits over the existing gland bolts and needs to be tightened at installation till the visible assembly gap closes. During operation it works as an indicator if wear or consolidation appear and the Proload Live Loading assembly needs to be retightened to its optimal set point. A torque wrench is not required. The feature of Proload Live Loading is to automatically adjust the gland and keep the packing set under constant pressure.

### Further components

The carbon restriction bush is made from a high purity material with > 99% C content with high compression strength. Precisely machined tolerances narrow the gap at the bottom of the stuffing box to a minimum and offer some bearing area for thinner and horizontal orientated valve stems. The length of the bush is readily made up to a depth utilizing the optimum amount of packing rings for best sealing performance and low friction of the stem as a result acknowledged by leading studies.

### Form of delivery

The complete kit includes a die-formed five ring packing set, an axially split carbon restriction bushing and two preset Live Loading Cartridge assemblies. As all sealing components are split they will be installed in the stuffing box without removing the actuator thereby simplifying the installation in the field.

### Dimensions

As example for Fisher control valves. On request also available for other common controlvalves.

SB Crossection		Fisher Valve Size	Pressure Class	Article Code
Metric (mm)	Imperial (inch)			
9.5 x 22.2	0.375 x 0.875	1; 1.5	150#	22441
9.5 x 22.2	0.375 x 0.875	1; 1.5	300#	22443
12.7 x 25.4	0.375 x 0.875	1; 1.5	150#	22444
12.7 x 25.4	0.5 x 1.000	2; 3; 4	300#	22446
19.05 x 34.9	0.75 x 1.375	6; 8	150#	22447
19.05 x 34.9	0.75 x 1.375	6; 8	300# - 600#	22448

All technical information and advice is based on our experience and will be given most conscientiously but without any liability.

Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time. Please note that the technical values cannot be used all at the same time in their maximum values.

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