

PIX

Muscle Belt



Lean!
Mean!
Green!

- ✓ High Power
- ✓ 98% Efficient
- ✓ Maintenance Free
- ✓ REACH compliant
- ✓ ECO Friendly
- ✓ Space Saving
- ✓ Reduced Wear
- ✓ Smoother Running

PIX *MUSCLE* Belts



PIX's overwhelming desire to be at the "cutting edge" in this field has culminated in the launch of the MUSCLE range of belts. Put simply, MUSCLE, is the ultimate V-belt – super-high power rating, maintenance-free, and eco-friendly. Years of consultation with their customers, and taking into account the new requirements of the changing world we find ourselves in, has resulted in PIX providing the "perfect solution"

- These belts are produced to comply with the latest REACH directives, RoHS regulations, and exclude all restricted chemicals as listed by the EPA in the US.
- The new belt compound does not emit any toxic substances, either during manufacture, or when running in use.
- The revolutionary design of the compound performs well in adverse conditions, such as high temperatures, UV or Ozone exposure, and chemically aggressive environments.
- MUSCLE shows remarkable performance characteristics in terms of elongation and slippage – minimising energy loss.

Main Features and Benefits:

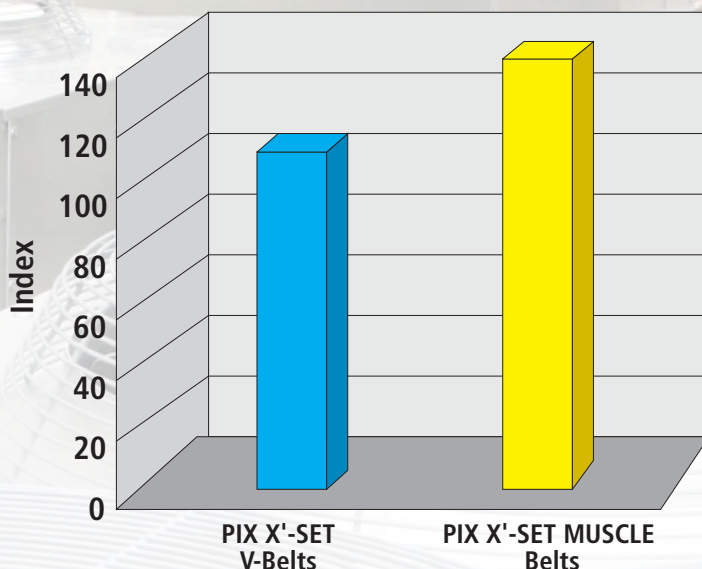
- Extremely high power rating – up to 35% more than a regular belt
- High tensile strength – resistant to elongation and breakage
- Maintenance-Free - No re-tensioning required
- High Efficiency – up to 98%
- Highly Flexible - The standard construction allows the belt to "reverse bend" in drives with back idlers
- Extended temperature range: from -25°C up to 120°C
- Anti-static – complies with ISO 1813
- Space-saving potential, when designing drives – less belts required
- Longer service life, less down-time, reduced ownership costs

PRODUCT RANGE:

Section	Manufacturing Range From To		Length Designation
Z	9.5"	195"	Li
A	13"	360"	Li
B	19.5"	658"	Li
C	31"	658"	Li
SPZ	365 mm	4950 mm	Lp
SPA	575 mm	9145 mm	Lp
SPB	940 mm	16765 mm	Lp
SPC	1750 mm	16790 mm	Lp
3V	19.5 "	190 "	La
5V	49"	654"	La

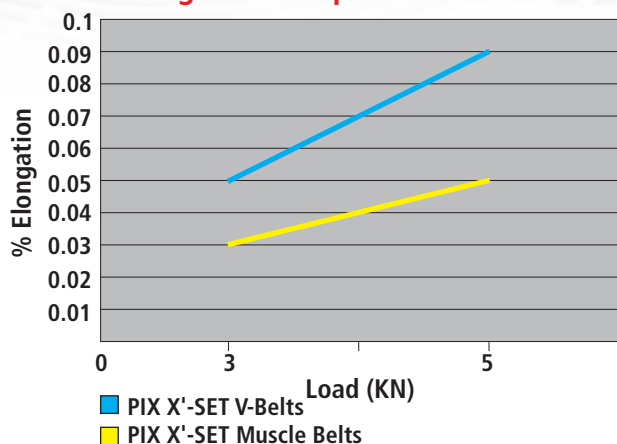
PIX MUSCLE features a unique High-Power construction which minimises transmission loss at the lowest level. The composite high-modulus flexible layer supports a specially designed tension member, running around the circumference of the belt.

Power Rating Comparison

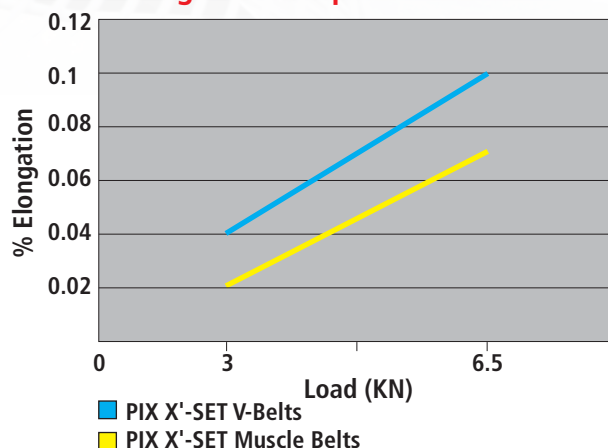


Excellent lateral rigidity, and a newly designed tensile cord structure, gives MUSCLE its remarkable strength and resistance to elongation. The resultant decrease in slippage minimises energy loss.

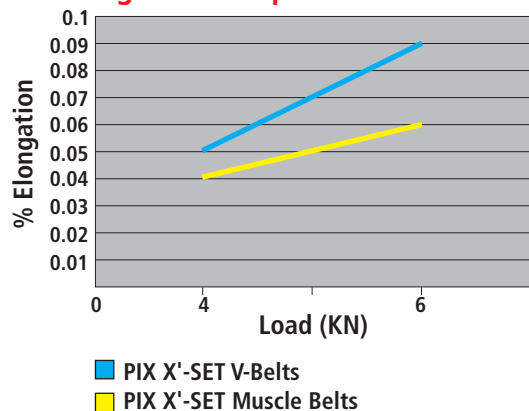
Elongation Comparison "A" Section



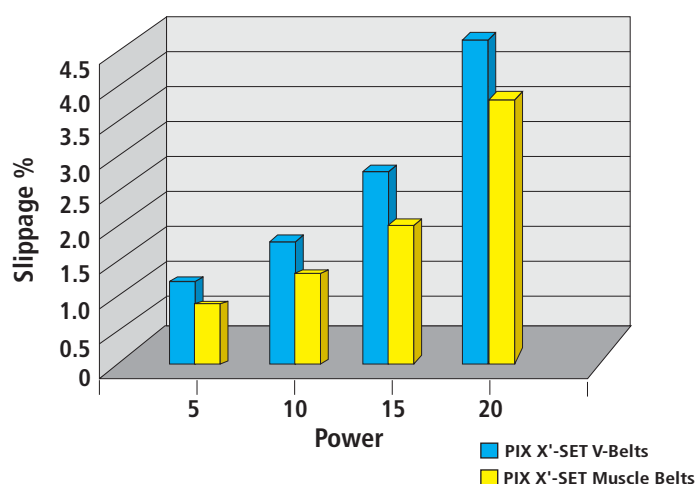
Elongation Comparison "B" Section



Elongation Comparison "SPZ" Section

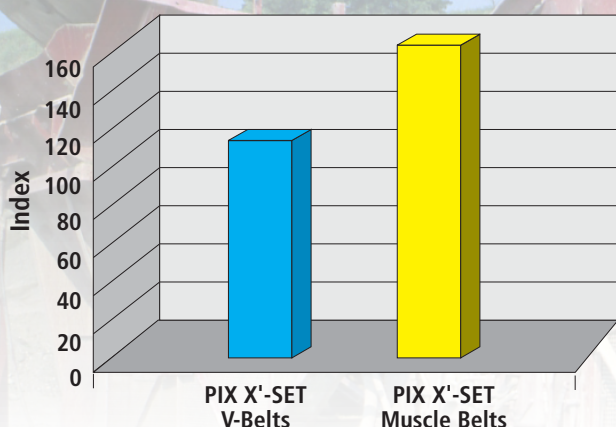


Slippage Comparison

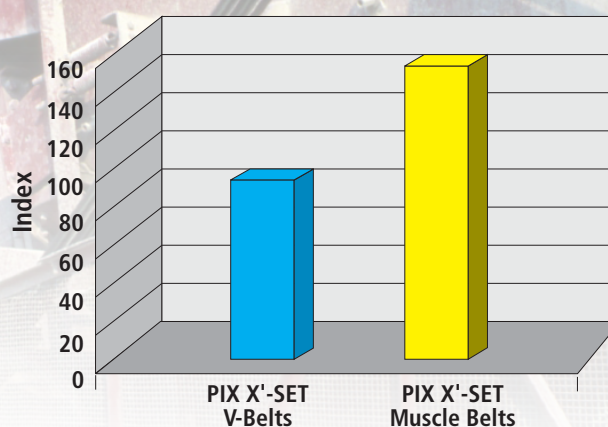


The newly designed MUSCLE compound has enhanced oil-resistant capability. This reduces belt degradation due to swelling, when the belt comes into contact with oils and greases. The compound also has a wider tolerance to extreme temperatures – this prevents the rubber hardening and ageing prematurely.

Comparison of oil resistance in IRM 901



Comparison of oil resistance in IRM 903



In a particular drive application, the PIX MUSCLE belt gives the more life as compared to other variants of PIX belts. In case of multi-groove pulley, the special design of PIX MUSCLE belt gives increased belt life up to 50% with reduced number of belts in comparison to regular belt, thereby reducing cost involved in the drive.

DEKRA
ISO 9001:2008
ISO/TS 16949:2009



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