



STAR3 SERIES

Wiper

The **New Wiper Wipes** dirt out for less maintenance and longer life of the cylinder. (Urethane) (temperature: -50° to 200°F)

Piston Machined from solid aluminum bar stock (6061-T6) Offers long bearing support

Piston Wear Ring

Nylon material is designed for low friction, and ensures minimum wear in the cylinder in side load application. Eliminates metal-to-metal contact.

Piston Seal

Lip-type low friction urethane piston seals are pressure energized and wear compensating for low friction and long life (temperature: -50° to 200°F) (Viton™ also Available up to 400°F) (all seals can be used in a non lube application)

Check seal Cushion and Needle valves

(No charge adders - Standard on 1½" to 5" Bore) Precision Cushion spuds combined with a new style of floating cushion seal provide smooth deceleration at end of the stroke. Needle valves make adjustments easy. (brass or stainless steel)

Piston Rod - High Strength steel. NITRO CARBURIZING treatment on the rod gives better corrosion-resistant properties (out performs 12-micron, (.0005 in.) chromium electroplating by ratio up to 20:1.), Improved wear resistance, better lubrication retention, dent resistance without induction hardening (60Rc), environmentally friendly, no surface pitting, flaking, or hydrogen embrittlement. The finish created by the process is a lustrous black (stainless steel also available)

Rod lips seal

Our **New Design** with a real rod u-cup is completely self compensating for zero leakage at all pressures (all seals can be used in a non lube application) temperature: -50° to 200°F

Rod Gland

Bronze gland is externally removable without cylinder disassembly for easy maintenance. Design to provide maximum rod bearing. (Also available in Acetal)

O-ring Tube End Seals

Nitrile O-ring design is pressure compensating and reusable.

Tie rods

Corrosion resistant (Nitro carburizing), stress proof steel maintains uniform compression on tube end seals. (Stainless steel may be used)

Hard Anodized ID Aluminum Tube

(60 Rc) Provides superior wear resistance, and lower friction coefficient for maximum seal life. (Also available in Stainless Steel.)

Solid Aluminum Head & Cap Machined from solid aluminum bar stock (6061 T6) and black anodized for corrosion resistance. (Also available in Stainless Steel)

- N.F.P.A. Interchangeable, Aluminum construction
- Flush mount std.
- 10 Bore sizes 1½" through 12"
- Strokes - available to any practical length
- 18 standard Mounting Styles

- -50°F heavy duty seals, non lube, low friction
- Check seals Cushion Standard from 1.5 to 5" bore
- Rod, tie rods & Cushion Spud are Nitro-carburized for better corrosion and wear resistance.
- Oversize and double oversize available

STARCYL CYLINDERS USA CORP

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STARCYL CYLINDERS CANADA INC

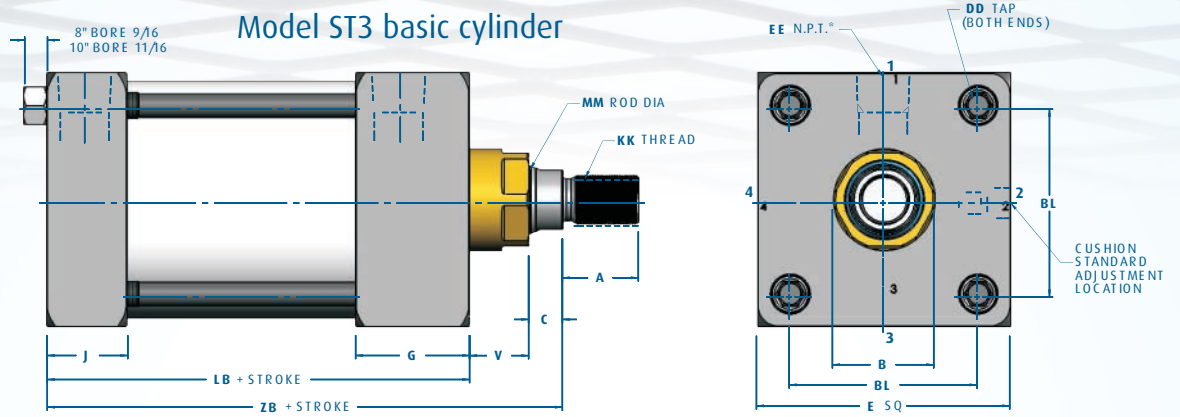
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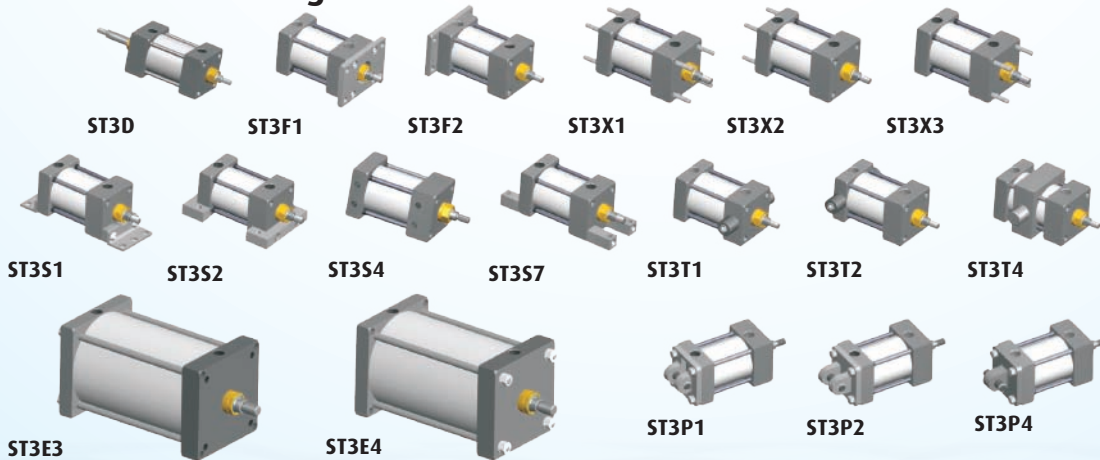
1 1/2" - 12" BORE
 Pressure rating:
 250 psi air
 or oil service.
 Stock stroke
 for 1/2" to 5" bores:
 1", 2", 3", 4", 5",
 6", 8", 10", 12".

Stroke lengths to
 suit are available in
 all bore sizes



BORE	1 1/2	2	2 1/2	3 1/4	4	5	6	7	8	10	12
A	3/4	3/4	3/4	1 1/8	1 1/8	1 1/8	1 5/8	1 5/8	1 5/8	2	2.25
B	1.124	1.124	1.124	1.499	1.499	1.499	1.999	1.999	1.999	2.374	2.624
BL	1.43	1.84	2.19	2.78	3.32	4.12	4.88	5.730	6.44	7.92	9.406
C	3/8	3/8	3/8	1/2	1/2	1/2	5/8	5/8	5/8	3/4	7/8
DD	1/4-28	5/16-24	5/16-24	3/8-24	3/8-24	1/2-20	1/2-20	5/8-18	5/8-18	3/4-16	3/4-16
E	2	2 1/2	3	3 3/4	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	10 5/8	12 3/4
EE	3/8	3/8	3/8	1/2	1/2	1/2	3/4	3/4	3/4	1	1
G	1 1/2	1 1/2	1 1/2	1 3/4	1 3/4	1 3/4	2	2	2	2 1/4	2 1/4
J	1	1	1	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2	2
KK	7/16-20	7/16-20	7/16-20	3/4-16	3/4-16	3/4-16	1-14	1-14	1-14	1 1/4-12	1 1/2-12
LB	3 5/8	3 5/8	3 3/4	4 1/4	4 1/4	4 1/2	5	5 1/8	5 1/8	6 3/8	6 7/8
MM	5/8	5/8	5/8	1	1	1	1 3/8	1 3/8	1 3/8	1 3/4	2
V	5/8	5/8	5/8	7/8	7/8	7/8	1	1	1	1 1/8	1 1/8
ZB	4 5/8	4 5/8	4 3/4	5 5/8	5 5/8	5 7/8	6 5/8	6 3/4	6 3/4	8 1/4	8 7/8

Available mountings



How to order :

EXAMPLE
 MOUNTING - BORE X STROKE - ROD END - OPTIONS
 ST3S2-4x10-#4- is a STAR3 series, 4" bore, 10" stroke,
 side lug mount, female rod thread,



NFPA
 Solutions through
 motion technology
 MEMBER

For more details download the full pdf catalog at
WWW.STARCYL.COM