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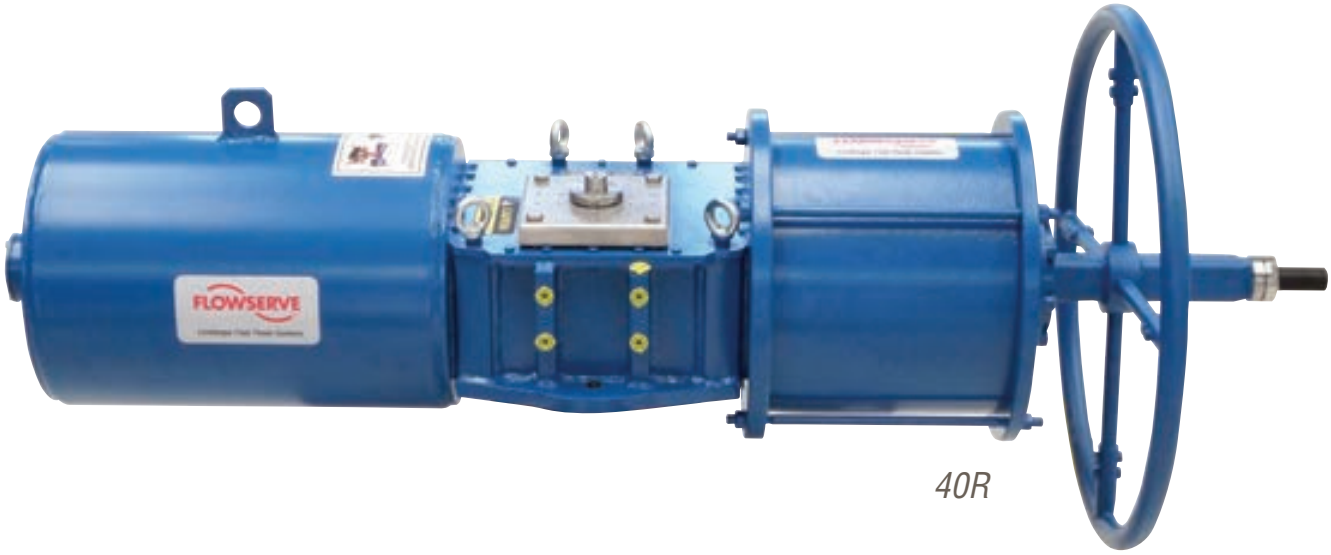
FLOWSERVE

Единый адрес для всех регионов: fvr@nt-rt.ru || www.flowserve.nt-rt.ru



40R

FLUID POWER

Whether you need fail-safe action, high-torque power or high-speed functionality, Flowserve fluid power actuators are built for the world's toughest jobs. Reliable operation, reduced maintenance and longer service life are made possible by the simplicity, efficiency and flexibility built into every design. From nuclear power plants to offshore drilling platforms, the world's most critical infrastructures rely on Flowserve for rugged, efficient actuators with service lifespans of a quarter-century or more.

Fluid Power – Quick Reference*

Product	Sub-Type	Torque	Thrust	MAWP	Temperatures
LPS	Pneumatic — Scotch Yoke	550 kNm (405 659 ft-lb)	—	12 barg (174 psig)	-60°C to 160°C (-76°F to 320°F)
LPC	Pneumatic — Scotch Yoke	5500 Nm (4057 ft-lb)	—	12 barg (174 psig)	-60°C to 160°C (-76°F to 320°F)
RG, ARG and WRG	Pneumatic — Scotch Yoke	248 kNm (2.2M in-lb)	—	10.3 barg (150 psig)	-55°C to 149°C (-67°F to 300°F)
Turnex™	Pneumatic — Linkage	60 to 20 000 Nm (44 to 1475 ft-lb)	—	8 barg (116 psig)	-30°C to 80°C (-22°F to 176°F); to -40°C (-40°F) on request
F39	Pneumatic — Rack & Pinion	7100 Nm (62 835 in-lb)	—	8.3 barg (120 psig)	-40°C to 150°C (-40°F to 302°F)
40R	Pneumatic — Rack & Pinion	7100 Nm (62 835 in-lb)	—	8.3 barg (120 psig)	-40°C to 150°C (-40°F to 302°F)
33R	Pneumatic — Rack & Pinion	2309 Nm (20 436 in-lb)	—	5.5 barg (80 psig)	-40°C to 150°C (-40°F to 302°F)

** Additional products shown on next page*

Fluid Power – Quick Reference, cont'd.

Product	Sub-Type	Torque	Thrust	MAWP	Temperatures
P61	Pneumatic — Rack & Pinion	1063 Nm (9408 in-lb)	—	8.3 barg (120 psig)	-40°C to 150°C (-40°F to 302°F)
Supernova™	Pneumatic — Rack & Pinion	5005 Nm (44 294 in-lb)	—	8 barg (120 psig)	-50°C to 150°C (-55°F to 302°F)
SXL	Pneumatic — Rack & Pinion	765 Nm (6770 in-lb)	—	8.3 barg (120 psig)	-50°C to 150°C (-55°F to 302°F)
NR	Pneumatic — Rotary	5 to 1285 Nm (43 to 11 381 in-lb)	—	6 barg (80 psig)	-60°C to 70°C (-76°F to 158°F)
VR	Pneumatic — Rotary	8 to 4160 Nm (72 to 36 820 in-lb)	—	10.3 barg (150 psig)	-60°C to 177°C (-76°F to 350°F)
FlowAct™	Pneumatic — Linear	—	0.25 to 60 kN (56.2 to 13 488.5 lbf)	6 barg (87 psig)	-40°C to 80°C (-40°F to 176°F)
VL	Pneumatic — Linear	—	15.85 to 262.53 kN (3564 to 59 020 lbf)	10.3 barg (150 psig)	-40°C to 177°C (-40°F to 350°F)
VL-C	Pneumatic — Linear	—	15.85 to 134.11 kN (3564 to 30 150 lbf)	10.3 barg (150 psig)	-40°C to 177°C (-40°F to 350°F)
VL-ES	Pneumatic — Linear	—	72.73 to 166.45 kN (16 350 to 37 420 lbf)	10.3 barg (150 psig)	-40°C to 177°C (-40°F to 350°F)
VL-UHC	Pneumatic — Linear	—	15.85 to 125.88 kN (3564 to 28 300 lbf)	10.3 barg (150 psig)	-40°C to 80°C (-40°F to 176°F)
Series 2 Type KP	Pneumatic — Linear	—	to 35.0 kN (7868 lbf)	6 barg (87 psig)	-40°C to 80°C (-40°F to 176°F)
Series 4 Type KA	Pneumatic — Linear	—	to 25.5 kN (5735 lbf)	1.4 to 4.2 barg (20 to 60 psig)	-30°C to 80°C (-22°F to 176°F)
LHS and LHH	Hydraulic	550 kNm (405 659 ft-lb)		345 barg (5000 psig)	-60°C to 160°C (-76°F to 320°F)
LDG	Direct Gas	550 kNm (405 659 ft-lb)		105 barg (1500 psig)	-40°C to 160°C (-40°F to 320°F)

PNEUMATIC — SCOTCH YOKE

LPS

Ideal for medium or large valve actuation and any application requiring robust design, long service life and high-speed operation. Meets the most stringent safety and performance standards for oil and gas applications.

Limitorque

- Low total cost of ownership provided by 25-year design life and maintenance intervals up to six years
- High-speed performance with reduced size, weight and consumption made possible by highly efficient design
- Modular construction allows easy on site maintenance without special tools and without removal from the valve
- Regulatory compliance with the highest industry standards, including EN 15714 and IEC 61508 (SIL 3 capable)

SPECIFICATIONS

Torque: 550 kNm (405 659 ft-lb)
MAWP: 12 barg (174 psig)
Temp: -60°C to 160°C (-76°F to 320°F)

For more information, refer to LFENBR0001 or LFENFL0001.

Refer to literature LFENBR0001 or LFENFL0001 at / library.

PNEUMATIC — SCOTCH YOKE

LPC

Suitable for pneumatic on-off, light modulating and control applications of small or medium quarter-turn valves in general and protective services. Also useable in safety services up to SIL 3 in accordance with IEC 61508.

Limitorque

- Low total cost of ownership provided by proven design with 25-year life cycle and maintenance intervals up to five years (or per EN 15714 endurance testing)
- Application versatility enabled by flexible field conversion from Fail Close CW to Fail Open CCW and easy retrofitting via specially designed coupling interface
- Superior reliability and durability above typical industry standards, thanks to heavy-duty design and excellent corrosion resistance
- Regulatory compliance with the toughest industry standards, including EN 15714 and ISO 9001

SPECIFICATIONS

Torque: 5500 Nm (4057 ft-lb)
MAWP: 12 barg (174 psig)
Temp: -60°C to 160°C (-76°F to 320°F)

Refer to literature LFENBR0002 or LFENTB0002 at / library.

PNEUMATIC — SCOTCH YOKE

RG, ARG and WRG

A ductile cast iron actuator series, ideal for general process and chemical applications where highly standardized pneumatic actuators are required. It offers more than 250 torque profiles and significantly reduces transverse loads.

Automax Accord™ Worcester

- Easier installation in tight spaces via pull-to-compress design and concentric nested spring configuration plus easy on-site field reconfiguration
- Increased efficiency from canted yoke and support system, which delivers approximately 20% higher break torque
- Greater process control via bidirectional travel stops that allow precise adjustment of open and closed positions
- Environmental protection assured by IP67M (temporary submersion) rating and marine-grade epoxy surface treatment

SPECIFICATIONS

Torque: 248 kNm (2.2M in-lb)
MAWP: 10.3 barg (150 psig)
Temp: -55°C to 149°C (-67°F to 300°F)

Refer to literature AXEBR1002 at / library.

PNEUMATIC — LINKAGE

Turnex

The Turnex is a heavy-duty actuator for high-performance modulating control. It is also used for on-off service.

NAF

- Maintenance-free operation enabled by robust linkage system with bushing, providing optimum torque curve for quarter-turn valves and eliminating play
- Seamless integration with NAF control valve package provided by unique direct mounting concept
- Installation ease enhanced by internal air passages, eliminating external pipes
- Minimizes spare parts with unique system of sleeves for different stem diameters, plus more than three decades of parts consistency

SPECIFICATIONS

Torque: 60 to 20 000 Nm (44 to 1475 ft-lb)
MAWP: 8 barg (116 psig)
Temp: -30°C to 80°C (-22°F to 176°F); to -40°C (-40°F) on request

Refer to literature Fk 74.59 at / library.

PNEUMATIC — RACK & PINION

LRP

The Limitorque LRP actuator is robust and reliable. It is designed for high-performance automation of quarter-turn valves in a wide range of applications.

Limitorque

- Improved reliability, performance stability and service life enabled by unique piston support rods that ensure side loads are transmitted through the bearings, not the body
- Efficient torque matching ensured by the linear torque curve of the balanced double rack and pinion design plus a large range of sizes
- Installation ease and application flexibility with ISO 5211 mounting with star drive output as well as Namur VDI/VDE 3845 top mounting and solenoid mounting patterns

SPECIFICATIONS

Torque: 1700 Nm (1250 ft-lb)
MAWP: 8 barg (116 psig)
Temp: -40°C to 150°C (-40°F to 302°F)

Refer to literature LFENBR0009 at / library.

PNEUMATIC — RACK & PINION

F39

High-cycle pneumatic power for on-off or throttling control of rotary valves and dampers. Available in double-acting or spring-return configurations.

Worcester

- Longer service life enabled by piston support rods that eliminate the need for the body to be used as a bearing surface
- Increased efficiency from balanced double rack-and-pinion, eliminating side loads
- Faster operation speed is a standard feature, thanks to unique design enabling unrestricted air flow through guide rods
- Increased plant and personnel safety via long screws, allowing complete release of spring energy during disassembly

SPECIFICATIONS

Torque: 7100 Nm (62 835 in-lb)
MAWP: 8.3 barg (120 psig)
Temp: -40°C to 150°C (-40°F to 302°F)

Refer to literature WCENBR1003 at / library.

PNEUMATIC — RACK & PINION

40R

Recognized as the leading name in the quarter-turn pneumatic actuator market for half a century. With 11 sizes available, torque output can be closely matched to the required valve torque.

Norbro®

- Longer service life enabled by piston support rods that eliminate the need for the body to be used as a bearing surface
- Increased safety plus ease of maintenance from anti-blowout pinion, airflow through support rods, and long end cap screws to release spring energy
- Application flexibility made possible by large size range and Namur VDE/VDI 3845 top-mounting pattern for easy fitting and interchangeability of ancillary equipment
- Minimizes space requirements with compact fail-safe option, available in same body size as double-acting configuration

SPECIFICATIONS

Torque: 7100 Nm (62 835 in-lb)
MAWP: 8.3 barg (120 psig)
Temp: -40°C to 150°C
(-40°F to 302°F)

Refer to literature NBEBR0003 at /library.

PNEUMATIC — RACK & PINION

33R

A 180-degree actuator derived from the world-renowned Norbro 40R, designed to compliment the Worcester Series 18/19 multi-way ball valve.

Norbro

- Longer service life enabled by piston support rods that eliminate the need for the body to be used as a bearing surface
- Increased safety plus ease of maintenance from anti-blowout pinion, airflow through support rods, and long end cap screws to release spring energy
- Application flexibility made possible by large size range and Namur VDE/VDI 3845 top-mounting pattern for easy fitting and interchangeability of ancillary equipment
- Easy installation in tight spaces via spring-return version, available in same body size as double-acting configuration, creating a compact fail-safe option

SPECIFICATIONS

Torque: 2309 Nm (20 436 in-lb)
MAWP: 5.5 barg (80 psig)
Temp: -40°C to 150°C (-40°F to 302°F)

Refer to literature NBEBR0002 or NBEBR0003 at / library.

PNEUMATIC — RACK & PINION

P61

The P61 brings new levels of control to batch filling operations. Based on the 40R, it is designed specifically to provide rapid, repeatable and highly accurate filling control for weigh/measuring processes.

Norbro

- Greater process control assured by two-stage operation which allows high flow followed by repeatable trickle flow before closing
- Longer service life enabled by piston support rods that eliminate the need for the body to be used as a bearing surface
- Increased safety from bolted-on cover sleeve, anti-blowout pinion, airflow through support rods, and long end cap screws to release spring energy

SPECIFICATIONS

Torque: 1063 Nm (9408 in-lb)
MAWP: 8.3 barg (120 psig)
Temp: -40°C to 150°C (-40°F to 302°F)

Refer to literature NBEBR0004 or NBEBR0003 at / library.

PNEUMATIC — RACK & PINION

Supernova

Accord

Supernova ASAP series rack and pinion actuators are designed for butterfly, plug or ball valves, and offer one compact design for double acting and spring return.

- Increased efficiency and cycle life from precision die-cast pistons with large cylinder bearings
- Greater precision and reliability assured by integral travel stops in both directions, plus 10 degrees of overtravel for precise adjustment
- Longer, trouble-free service life enabled by precision-extruded hard anodized aluminum body and a one-piece, factory-lubricated, nitride-protected pinion gear
- Ease and flexibility of installation via dual ISO 5211 mounting pattern

SPECIFICATIONS

Torque: 5005 Nm (44 294 in-lb) MAWP: 8 barg (120 psig)
Temp: -50°C to 150°C (-55°F to 302°F)

Refer to literature ACENBR0004 or ACENBR0001 at / library.

PNEUMATIC — RACK & PINION

SXL

Automax

Ideal for corrosive environments, the SXL Series utilizes a 316 stainless steel body with stainless steel or aluminum pistons and springs. Optional polished finishes for sanitary applications also available.

- Longer service life and lower maintenance cost from corrosion-resistant materials
- Greater process control enabled by bi-directional travel stops, with 5° overtravel and 10° undertravel adjustment in each direction
- Installation ease via ISO 5211 mounting with Namur VDE/VDI 3845 top-mounting pattern for easy fitting and interchangeability of ancillary equipment

SPECIFICATIONS

Torque: 765 Nm (6770 in-lb)
MAWP: 8.3 barg (120 psig)
Temp: -50°C to 150°C (-55°F to 302°F)

Refer to literature LPR0006 at / library.

PNEUMATIC — ROTARY

NR

Valtek

The Flowserve Valtek NR diaphragm rotary actuator features excellent sensitivity that provides quick, accurate movements for precise control.

- Long operating life enabled by rolling diaphragm that creates minimal wear
- Lower maintenance and parts cost assured by simple design
- Increased efficiency from ISO 9001-compliant design, allowing direct mounting of positioners for minimal lost motion

SPECIFICATIONS

Torque: 5 to 1285 Nm (43 to 11 381 in-lb)
MAWP: 6 barg (80 psig)
Temp: -60°C to 70°C (-76°F to 158°F)

Refer to literature VLENIM0064 at / library.

PNEUMATIC — ROTARY

VR

Valtek

The Flowserve Valtek VR cylinder actuator is a high-pressure, compact actuator with high torque and pneumatic stiffness for excellent throttling capabilities.

- Greater process control enabled by standard splined shaft connection that eliminates backlash
- Lower maintenance costs, greater ease of installation, and compliance with seismic requirements assured by compact, lightweight and rugged design
- Long service life via low-friction bearings that provide millions of cycles with minimal wear while minimizing hysteresis
- Increased plant and personnel safety made possible by air-purged, fully enclosed transfer case

SPECIFICATIONS

Torque: 8 to 4160 Nm (72 to 36 820 in-lb)
MAWP: 10.3 barg (150 psig)
Temp: -60°C to 177°C (-76°F to 350°F)

Refer to literature VLATB031 at / library.

PNEUMATIC — LINEAR

FlowAct

Valtek

The FlowAct pneumatic diaphragm actuator is a high-thrust, multi-spring actuator for direct or reverse action — easy installation and field reversible without additional parts.

- High-speed performance enabled by low volume between diaphragm and case
- Greater efficiency from fabric-reinforced, roll-type diaphragm that maintains linear stem positioning
- Lower maintenance cost made possible by maintenance-free stem bushing

SPECIFICATIONS

Thrust: 0.25 to 60 kN (56.2 to 13 488.5 lbf)
MAWP: 6 barg (87 psig)
Temp: -40°C to 80°C (-40°F to 176°F)

Refer to literature SAENTBFACT at / library.

PNEUMATIC — LINEAR

VL

Valtek

The VL Series is the standard set of actuators for Valtek control valves, providing precise control and reliable performance for more than 30 years.

- Increased efficiency provided by substantially higher thrust capabilities compared to diaphragm actuators, allowing tighter valve shutoff
- Installation and maintenance ease made possible by exceptionally compact and lightweight aluminum cylinder
- Ease of maintenance further enabled by durable construction and cylinder design, which provides easy access to all internal components
- Lower installation and replacement costs with standard O-rings for static and dynamic seals

SPECIFICATIONS

Thrust: 15.85 to 262.53 kN (3564 to 59 020 lbf)
MAWP: 10.3 barg (150 psig)
Temp: -40°C to 177°C (-40°F to 350°F)

Refer to literature VLENBR0002 at / library.

Valtek

PNEUMATIC — LINEAR

VL-C

Offering identical springs and all the advantages of Flowserve standard aluminum actuators, the VL-C replaces all aluminum parts with carbon steel.

- High performance enabled by replacing all aluminum parts with carbon steel
- Lower maintenance costs and time from simple design
- Broad nuclear application flexibility provided by a variety of options and accessories, allowing the VL cylinder to fit into almost any application requiring high thrust and low maintenance
- Low inventory carrying costs enabled by lower-cost VL soft goods that are easier to find

SPECIFICATIONS

Thrust: 15.85 to 134.11 kN (3564 to 30 150 lbf)
MAWP: 10.3 barg (150 psig)
Temp: -40°C to 177°C (-40°F to 350°F)

Refer to literature VLENBR0002 at / library.

Valtek

PNEUMATIC — LINEAR

VL-ES

Using many of the same design concepts as the VL-C, the VL-ES offers external spring cans for applications where longer strokes or unusually high spring thrust are required.

- Longer service life — up to 2 million cycles — from dynamic quad seal design, stronger springs, plug stem jam nut, and thrust bearings that prevent windup
- Installation and maintenance ease made possible by exceptionally compact and lightweight aluminum cylinder
- Ease of maintenance via spring cylinder actuator design requiring the removal of just two parts to access all internal components
- Lower installation and replacement costs thanks to standard O-rings for static and dynamic seals

SPECIFICATIONS

Thrust: 72.73 to 166.45 kN (16 350 to 37 420 lbf)
MAWP: 10.3 barg (150 psig)
Temp: -40°C to 177°C (-40°F to 350°F)

Refer to literature VLENBR0002 at / library.

Valtek

PNEUMATIC — LINEAR

VL-UHC

For applications where ultra high cycle (UHC) life is needed, VL-UHC Series actuators offer up to 2 million full stroke cycles with periodic soft goods replacement.

- Significantly longer service life provided by dynamic quad seals, plug stem jam nut, recessed O-ring adjusting screw seal, and stronger springs with stress-reducing thrust bearings
- Lower maintenance costs and time from simple design that requires removal of just two parts to access all internal components
- Broad nuclear application flexibility provided by a variety of options and accessories, allowing the VL cylinder to fit into almost any application requiring high thrust and low maintenance

SPECIFICATIONS

Thrust: 15.85 to 125.88 kN (3564 to 28 300 lbf)
MAWP: 10.3 barg (150 psig)
Temp: -40°C to 80°C (-40°F to 176°F)

Refer to literature VLENBR0002 at / library.

PNEUMATIC — LINEAR

Series 2 Type KP

Kämmer®

Stainless steel actuators for standard use. Multi-spring design, fail-open or fail-close position, and various accessories such as handwheels or limit stops make the KP actuator a frequent choice among operators.

- Broad application versatility offered by a wide range of sizes, integrated options and accessories
- Increased durability from stainless steel material, which provides superior corrosion resistance, even without a protective coating
- Installation ease and flexibility enabled by compact variations with enclosed accessories

SPECIFICATIONS

Thrust: to 35.0 kN (7868 lbf)
MAWP: 6 barg (87 psig) Temp: -40°C to 80°C (-40°F to 176°F)

Refer to literature KMEEBR0021 at /library.

PNEUMATIC — LINEAR

Series 4 Type KA

Kämmer

Compared to other manufacturers' diaphragm actuator designs, Series 4 offers much higher thrust, compact design and lighter weight. Field-reversible design may require no additional parts.

- Lower maintenance costs made possible by rugged positioner and internal design that protects all moving parts against damage and dirt
- Increased plant and personnel safety enabled by multiple-spring design, improving safety of fail-safe mode
- Broad application versatility enabled by a wide variety of top-mounted options, including handwheels, proximity switches and electric switches

SPECIFICATIONS

Thrust: to 25.5 kN (5735 lbf)
MAWP: 1.4 to 4.2 barg (20 to 60 psig)
Temp: -30°C to 80°C (-22°F to 176°F)

Refer to literature KMEEBR003 at / library.

HYDRAULIC

LHS and LHH

Suitable for on-off, modulating and control applications of quarter-turn valves in general and protective services. Also useable in safety services up to SIL 3 in accordance with IEC 61508.

Limitorque

- Longer service life and lower maintenance provided by proven design with 25-year life cycle and maintenance intervals up to six years
- Broad application versatility enabled by true modular design for flexible and easy field conversion
- Regulatory compliance assured by reliable design that meets a wide range of general service, protective service and safety application standards, including ESD / HIPPS and SIL Level 3 in accordance with IEC 61508
- Extreme environment performance available with polar or offshore variants

SPECIFICATIONS

Torque: to 550 kNm (405 659 ft-lb)
MAWP: 345 barg (5000 psig)
Temp: -60°C to 160°C (-76°F to 320°F)

Refer to literature LFENBR0003 and LFENFL0003 at / library.

DIRECT GAS

LDG

A high-pressure pneumatic, piston-type, Scotch yoke actuator designed to operate on high-pressure pneumatic supply fluids, including pipeline gases and nitrogen. Certified for SIL 3.

Limitorque

- Reduced equipment footprint due to compact dimensions and design
- Improved lifespan with 25-year design life and maintenance interval up to six years, or as prescribed in EN 15714 for high-cycle applications
- Simplified on-site maintenance for standard activities such as replacement of Scotch yoke sliding block without removing the actuator from the valve
- Reduced environmental impact through Limitorque's high-pressure rated MHPC control group that minimizes gas consumption and exhaust

SPECIFICATIONS

Torque: to 550 kNm (405 659 ft-lb)
MAWP: 105 barg (1500 psig)
Temp: -40°C to 160°C (-40°F to 320°F)

Refer to literature LFENTB0005 at / library.

По вопросам продаж и поддержки обращайтесь:

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