

EFFAST

PRO
FLOW T → PRO
FLOW P →



**HIGH PERFORMANCE
BUTTERFLY VALVES**

Welcome to Polypipe



Polypipe is the UK's largest plastic pipe systems manufacturer. With over 20,000 product lines and more than 3,000 employees, we have an enviable reputation among installers, contractors, stockists and specifiers.

Located outside Genova, **Polypipe Italia** is a specialist manufacturer of valves and fittings in PVCu, ABS and PPH materials available via merchants and distributors worldwide.

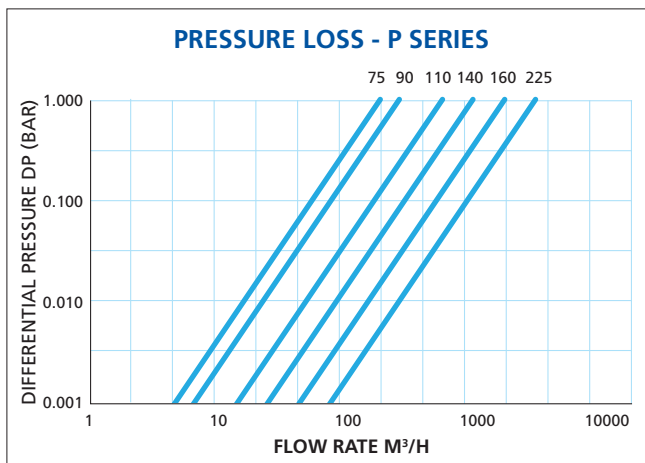
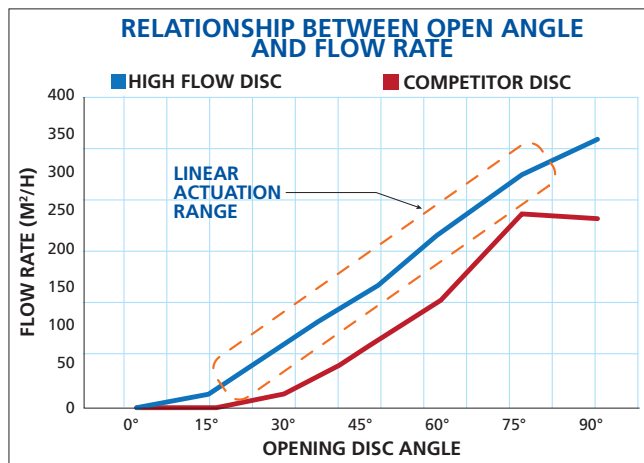
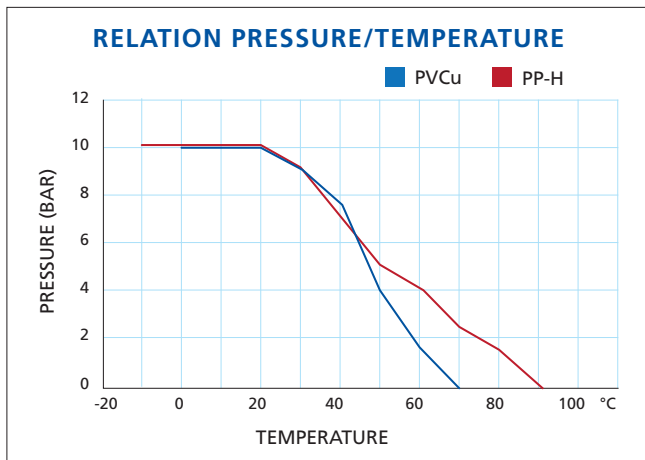
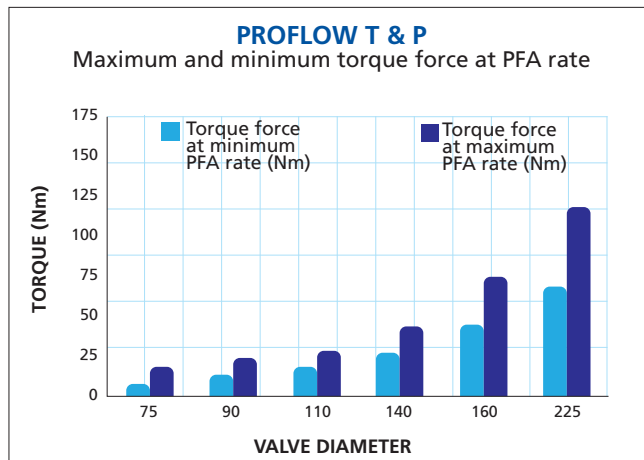
Our team of technical experts not only provide advice on all types of projects, but it's their experience, skills and knowledge that keeps us at the forefront of innovation.

New T&P Series ProFlow High Performance Butterfly Valves

The new T&P series ProFlow butterfly valves are ideal for high performance, shut-off or flow regulating applications. With an integral seal, fine control attributes and ease of actuation, their innovative design allows greater flow rates and reduces pressure drop across the valve.

They are durable, allowing the valves to be used in highly regulated industrial applications including pharmaceutical, marine, petro-chemical, water treatment and food manufacturing.





FLOW COEFFICIENT KV 100 (m³/h)

DN	65	80	100	125	150	200
ProFlow P	153	219	456	775	1.368	2.371
ProFlow T	130	185	386	656	1.158	2.007

Tests performed by certified independent laboratory

EFFAST Quality Marks

Our knowledge and expertise to bring innovation in all we do has helped us produce a specialist range of products and solutions that are always up to date with the very latest regulations and quality standards.





Hi Flow Disc

This patented high flow offset disc has a unique design to allow a greater flow rate in comparison to traditional discs. The external surfaces are free from sharp edges and ribs, and minimises the low pressure drops. The disc also provides a linear response resulting in greater control and excellent flow regulation.



Hi Temp Disc

The unique shape increases the disc's resistance to abrasions and stresses making it suitable for Industrial applications with aggressive fluids.



Special Internal Gasket

Special profile liner with the function of hydraulic seal and isolating all part from the liquid. Any more usage of additional flat liner.

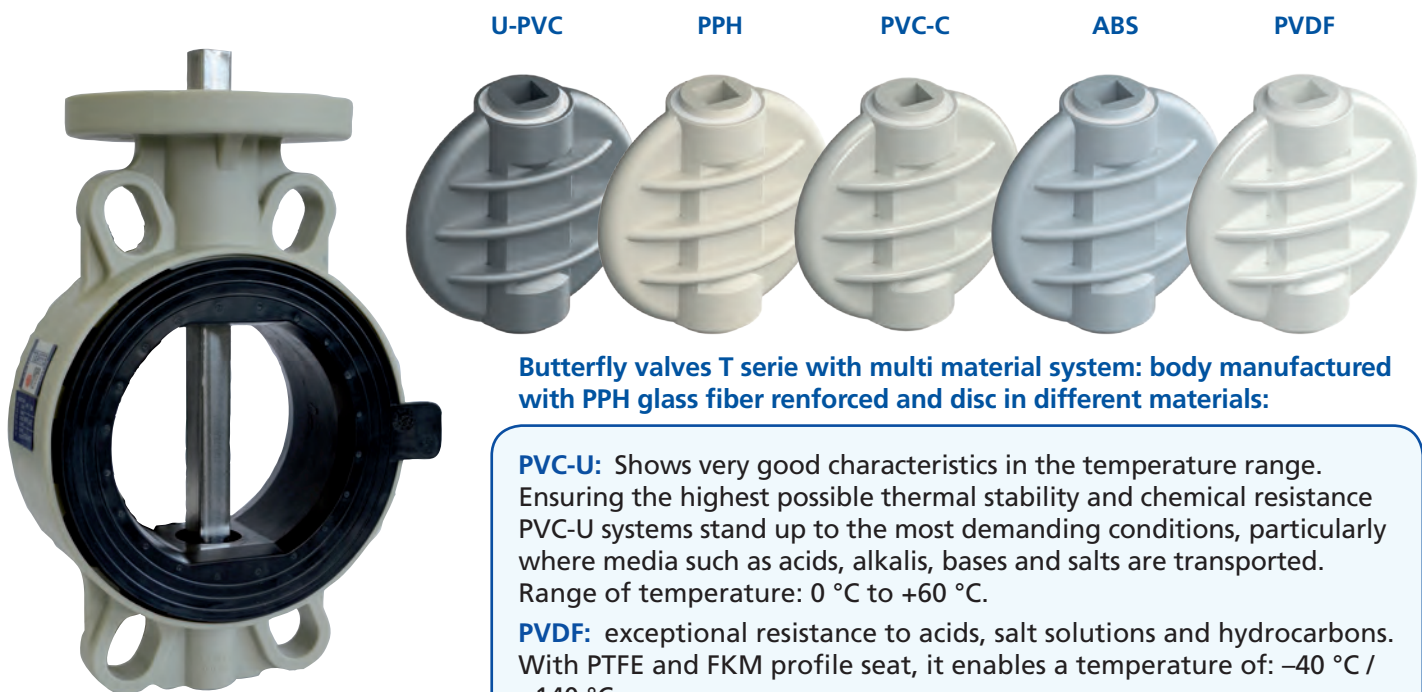
Key Benefits - T Series

- PPH butterfly valve for heavy industrial applications with high performances.
- Body in PPH glass fibre reinforced. High mechanical resistance.
- Multi material disc system allows the use of the T serie with the most varied aggressive fluids in a very wide temperature range.
- Big range of temperature: $-15 / +95$
- The EPDM main gasket is a certified, Italian manufactured gasket that covers the body and ensures a secure seal. A FKM gasket is available on request.
- Shaft in AISI316 completely isolated from fluid.
- New valve closing system with safety lock system and 19 positions for accurate regulation.
- Easy system to actuate with only two bolts to disassemble the handle.
- Actuator ready in accordance to ISO5211.
- Control options: Hand operated; Gearbox; Pneumatic or Electric actuators.

Key Benefits - P Series

- PVCu butterfly valve for industrial applications with high performances.
- The patented disc with offset shape has the greatest flow rate on the market and minimum low pressure drops.
- The offset disc allows a linear response and excellent flow regulation.
- The EPDM main gasket is a certified, Italian manufactured gasket that covers the body and ensures a secure seal. A FKM gasket is available on request.
- Shaft in AISI316 completely isolated from fluid.
- New valve closing system with safety lock system and 19 positions for accurate regulation.
- Easy system to actuate with only two bolts to disassemble the handle.
- Actuator ready in accordance to ISO5211.
- Control options: Hand operated; Gearbox; Pneumatic or Electric actuators.

Multi Material System



Butterfly valves T serie with multi material system: body manufactured with PPH glass fiber reinforced and disc in different materials:

PVC-U: Shows very good characteristics in the temperature range. Ensuring the highest possible thermal stability and chemical resistance PVC-U systems stand up to the most demanding conditions, particularly where media such as acids, alkalis, bases and salts are transported. Range of temperature: 0 °C to +60 °C.

PVDF: exceptional resistance to acids, salt solutions and hydrocarbons. With PTFE and FKM profile seat, it enables a temperature of: -40 °C / +140 °C.

PVC-C: Optimal thermal stability; industrial application with high performance and extended lifetime without signs of significant

mechanical or physical deterioration. Range of temperature: 0 °C / 100 °C.

PPH: Extreme toughness, excellent chemical resistance to many acids, alkalis and solvents; superior stress crack resistance; reliable protection against corrosion: range of temperature: 0 °C / 100 °C.

ABS: Large temperature operating range especially under 0 °C; high impact strength; outstanding ductility; wide chemical resistance; long term UV resistance; low thermal conductivity; lightweight. Range of temperature: -40 °C / +80 °C.

Valve Closing System

The valve closing system has been designed to make it extremely simple to use. By pushing the handle, the teeth that lock the valve in the required position are freed. On releasing the handle, the spring brings the handle back to the engaged position. There are 19 positions available between the opening and closing, with adjustments between 0° and 90°, to allow for a fine adjustment of the flow rate.

Valve control with four teeth engaged on the PA66 glass fiber reinforced notch plate

Handle support and regulation disc

Push and rotate to open and close

Four teeth are always engaged, ensuring the locking of the valve, even in the presence of vibration caused by high flows

Twin scale 0°÷90°

Indicators of the degree of opening

AISI 316 SS stem with square fit according to ISO5211

Four O-Rings ensure a secure seal

VALVE ACTUATION

DN	Q	A	H	D	ISO 5211
65	14	70	16	9	F07
80	14	70	16	9	F07
100	14	70	16	9	F07
125	17	70	19	9	F07
150	17/22	70/102	19/24	9/11	F07/F10
200	22	102	24	11	F10



The regulating notch plate/handle can be easily removed for the mounting of an electric or pneumatic actuator, or for the fitting of a manual gearbox.

Electric Actuator



Pneumatic Actuator



Gearbox



Butterfly Valve

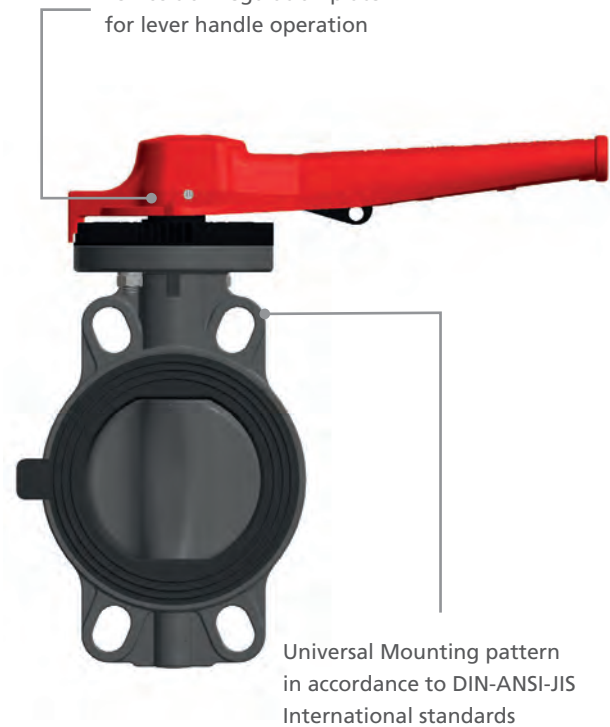
Technical Specification

Butterfly Valve

The T&P series valves are manufactured using robust materials; with PVCu or PPH for the disc and body, the stem, AISI316 and the gasket, EPDM/FKM. As well as strength, the valves also possess outstanding chemical resilience, ensuring a smooth operation and positive outcome every time.

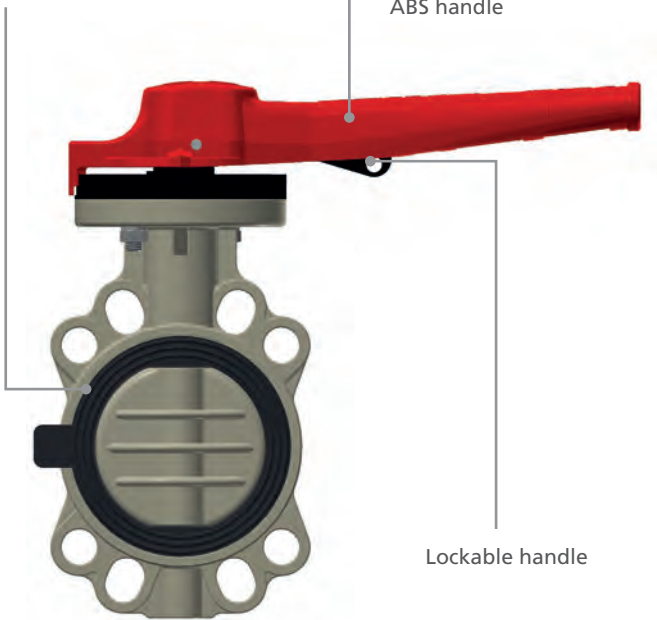


19 Position regulation plate
for lever handle operation



Primary gasket in
certified EPDM or FKM

Ergonomic
Shockproof
ABS handle



Lockable handle

TECHNICAL SPECIFICATION		
TYPE OF VALVE	Closing or regulation flow butterfly valve with high flow disc and integrated seal	
SIZE RANGE	DN60- DN80 – DN100 – DN125 – DN150 – DN200	
OPERATING PRESSURE	PN 10 at 20°C	
OPERATING TEMPERATURE	T Valve -15 / +95 °C P Valve 0 – 60 °C	
COUPLING STANDARDS	Flanging system: EN ISO 1452, EN ISO 15493, DIN 2501, EN1092-1; ASTM B16.5; JIS B2220 Actuator couplings: ISO 5211	
VALVE MATERIAL	T Valve <ul style="list-style-type: none">• Body: PPHGF• Disc: PPH• Stem: SS AISI316• Seals: EPDM/FKM	P Valve <ul style="list-style-type: none">• Body: PVCu• Disc: PVCu• Stem: SS AISI316• Seals: EPDM/FKM
CONTROL OPTIONS	<ul style="list-style-type: none">• Hand operated lever with 19 position regulating plate• Gearbox• Pneumatic actuator• Electric actuator	

EFFAST Product Range for Industrial Application

EFFAST Pressure Systems are suited to a wide range of Commercial and Industrial applications, with an extensive range of pipes, fittings and valves, easily and permanently assembled using solvent cement, electro-fusion weld or mechanical installation.

Applications include:

- Chemical
- Cold water services
- Slurry lines
- Water treatment
- Reactor cooling
- Available in PVCu, ABS, PPH or PE
- WRAS approved for use with potable water
- Valves available electrically or pneumatically actuated if required

TECHNICAL SPECIFICATION		Range
	Industrial Ball Valve Double Union BK1 Range	From 20 mm to 110 mm; From 3/8" to 4"
	Industrial Ball Valve Flanged BK1F Range	From 20 mm to 110 mm; From 3/8" to 4"
	Double Union Ball Valve BX Range	From 20 mm to 110 mm; From 3/8" to 4"
	Single Union Ball Valve SX Range	From 20 mm to 110 mm; From 3/8" to 4"
	Check Valve Clear Solvent Cement CVT Range	From 20 mm to 110 mm; From 3/8" to 4"
	Foot Valve Double Union HV range	From 20 mm to 110 mm; From 3/8" to 4"
	Sightglass with Union IND Range	From 16 mm to 110 mm; From 3/8" to 4"

TECHNICAL SPECIFICATION		Range
	Swing Check Valve CKD Range	From 63 mm to 2250 mm; From 2" to 8"
	Pipe and Fittings	From 16 mm to 315 mm; From 3/8" to 8"
	Glue and Solvent	Glue for large diameters THF Free and Solvent
	Double Union Industrial Ball Valve with Actuators BK1E Range	From 20 mm to 110 mm; From 3/8" to 4"
	Diaphragm Valve MMD Range	From 20 mm to 63 mm; From 3/8" to 2"
	Industrial Ball Valve Double Union BK1A Range ABS	From 3/8" to 4"
	Industrial Ball Valve Double Union BK1H Range PPH	From 20 mm to 110 mm; From 3/8" to 4"