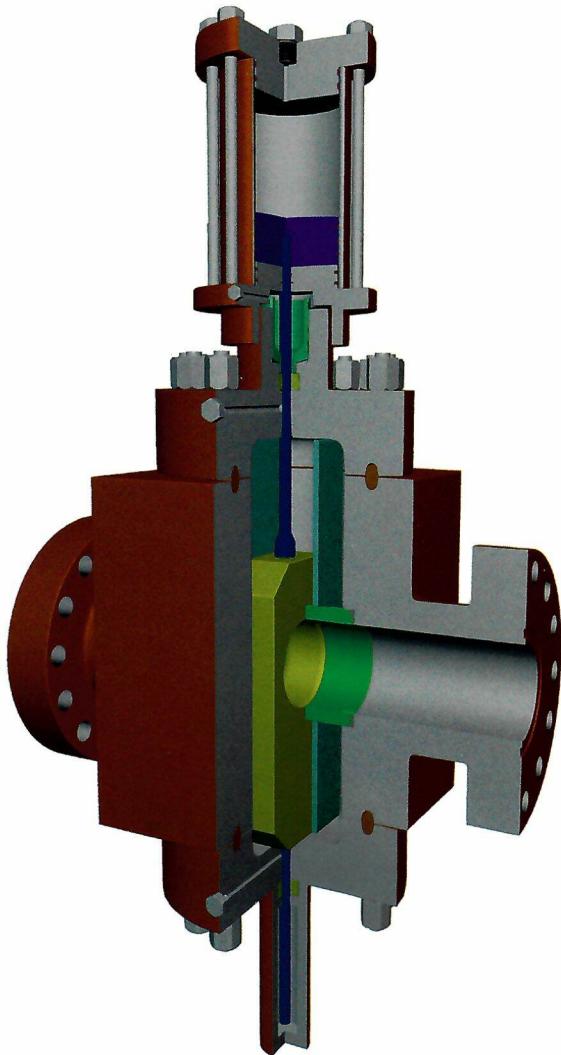


Stem Packing

Profile	Cross-Section	Pressure Range	Material
ESH		5K to 20K PSI	Filled PTFE SS/Alloy Spring
ESI		5K to 20K PSI	Filled PTFE PEEK SS/Alloy Spring
ESY		5K to 20K PSI	Filled PTFE SS/Alloy Spring
ESU		5K to 15K PSI	PTFE NBR/HNBR/FKM
ESA		5K to 10K PSI	NBR / HNBR / FKM
VZQ		5K to 15K PSI	Fabric Rubber

Seat Seal

Profile	Cross-Section	Pressure Range	Material
ESB		5K to 20K PSI	Filled PTFE PEEK SS/Alloy Spring
ESC		5K to 20K PSI	Filled PTFE PEEK SS/Alloy Spring
ESE		5K to 20K PSI	Filled PTFE SS/Alloy Spring
ESJ		5K to 15K PSI	Filled PTFE
ESS		5K to 20K PSI	HNBR/FKM SS Spring



Actuator Seals



- T Seals
- U Seals
- Wiper Seals
- Wear Bands
- O Rings
- Backup Rings

Quick Connect Fittings



- ISO A
- ISO B
- Flat Face
- 1/2", 3/4", 1"

Grease Fittings



- 1/2 NPT
- 9/16 Autoclave
- Packing Injection

Test Gaskets



- BX Searies
- R Series

Water Blast Fittings





Spring Energized Seal for API 6A Valve Sealing

The API 6A Appendix F PR2 qualification test is a widely recognized test procedure, and combines the effects of both pressure (P), and temperature (T).

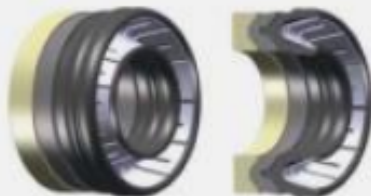
With a plus 20 year experience in manufacturing sealing components, SCF are the partner of choice for many OEM customers. Our products are tested and qualified by customers to meet API-6A-PR2 standards.



ESH - Valve Stem Seal

Jacket: Carbon Filled PTFE

Spring: Stainless Steel or Alloy



ESI - Valve Stem Packing

Pressure Ring: Carbon Filled PTFE

Spring: Stainless Steel or Alloy

Backup Ring: PEEK or Modified PTFE



ESB ESC - Valve Seat Seal

Jacket: PEEK or Modified PTFE

Spring: Stainless Steel or Alloy



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API 6A Test Fluid Immersion Test: NORSOK Acceptance Requirements

Requirement	NORSOK M-710
Young's Modulus Change, %	± 50
Elongation Change	
Max Stress Change	
Volume Change	+25/-5
Visual Inspection	As per standard

Properties Measured after Immersion for 160 hours at 200°C

MATERIAL	MASS UPTAKE (%)	VOLUME SWELL (%)	YOUNG'S MODULUS (%)	MAX STRESS (%)	ELONG. AT BREAK (%)
PTFE (PF001)	0.18	4.50	-48.7	-20.9	-0.94
PEEK (PK002)	1.61	4.47	+3.1	-10.2	+28.4

Successful Case

Valve size	Pressure (PSI)	Part profile	Temperature Rating	Material Grade	Standard
1-13/16"	10,000	ESI,ESB, ESC	LU	EE	
2-1/16"	15,000	ESI,ESB, ESC	LU	EE	PSL3G
2-1/16"	20,000	ESI,ESB, ESC	LU	EE	PSL3G
2-9/16"	10,000	ESI,ESB, ESC	PU	DD	PSL4
3-1/16"	10,000	ESH,ESB, ESC	PU	EE	PSL3G
3-1/16"	15,000	ESH,ESB, ESC	LU	DD	PSL3
3-1/8"	10,000	ESH,ESB, ESC	PU	EE	PSL3
4-1/16"	30,000	ESI,ESB, ESC	LU	EE	PSL3G
5-1/8"	5,000	ESI,ESB, ESC	LU	DD	PSL3G