

LIBRARY OF STANDARDS

BFPA Library of Standards

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KEY = Technical Committee responsible

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BRITISH STANDARDS INSTITUTION

British standards

Number	Title	Key
BS 3G 100-2.3.13:1973	Specification for general requirements for equipment for use in aircraft – All	4
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BS 4F 68:2002	Controlled storage of vulcanised rubbers for use in aerospace applications	4
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BS 5070:1974	Drawing practice for engineering diagrams	TCs
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BS 5173-2:1976	Methods of test for hoses Part 2: Hydraulic pressure tests	4
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BS 5173-103.7:1991	Methods of test for rubber and plastics hoses and hose assemblies Part 103.7 – Physical tests – Determination of fracture resistance of rigid polymer helical reinforcement in thermoplastics hoses	4
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BRITISH STANDARDS INSTITUTION

British standards – continued...

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BS 5200:1997+Corr July	Fluid Power Systems – specification for dimensions of hydraulic connectors and	4
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BS 5244:1986	Application, storage and life expiry of hydraulic rubber hoses and hose assemblies	4
BS 5327:1976	Specification – Swept elbow bends for fluid power applications	4
BS 5344:1976	Methods for acceptance tests for rotary and percussive pneumatic tools	TCs
BS 5380:1984	Specification for hydraulic port and stud coupling using O-ring sealing and	4
	G-series fastening threads.	
BS 5540-3:1978	Evaluating particulate contamination of hydraulic fluids Part 3: Methods of bottling	6
	fluid samples	
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	liquid automatic particle-count instruments (using mono-sized latex spheres)	
BS 5671:1979	Guide for commissioning, operation and maintenance of hydraulic turbines	9
BS 5755:1986	Dimensions for basic features of fluid power cylinders	3
BS 5944-3:1980	Measurement of airborne noise from hydraulic fluid power systems and	8
	components Part 3: Guide to the application of Part 1 and Part 2	
BS 5944-4:1984	Measurement of airborne noise from hydraulic fluid power systems and	8
	components Part 4: Method of determining sound power levels from valves	
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BS 6275-2:1984	Hydraulic fluid power filter elements Part 2: Methods of test to verify structural	6
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BS 6361:1988	Specification for three-pin plug connectors for electrically controlled fluid power	5
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BS 6525:1984	Specification for design and construction of reservoirs used in hydraulic fluid power	9
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BS 6537:1984	Staple type connectors for hydraulic fluid power applications	4
BS 6683:1985	Guide to installation and use of valves	5
BS 7388:1991	Guide for prevention of leaks from hydraulic fluid power systems	9
BS 7416:1991	Specification for precision finished seamless cold-drawn low carbon steel tubes for	4
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BS 7417:1991	Specification for interface dimensions of flat face O-ring seal hydraulic couplings	4
BS 7993:2011	Twin ferrule connectors and associated tubing for 316 stainless steel systems –	4
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BS 8465:2010	HFP – Monitoring the level of particulate contamination – Comparison membrane	6
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CEN - European Committee for Standardisation European standards implemented as British standards (*mandatory***)**

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BS EN 693:2001	Machine tools - Safety - Hydraulic presses	9
BS EN 853:2015	Rubber hoses and hose assemblies - Wire braid reinforced hydraulic type - Specification	4
BS EN 854:2015	Rubber hoses and hose assemblies – Textile reinforced hydraulic type – Specification	4
BS EN 856:2015+ Corr:March 2019	Rubber hoses and hose assemblies - Rubber-covered spiral wire reinforced by hydraulic type - Specification	4
BS EN 857:2015	Rubber hoses and hose assemblies - Wire braid reinforced compact type for hydraulic applications - Specification	4
BS EN 954-1:1997	Safety of machinery – Safety related parts of control systems Part 1: General principles for design	9
BS EN 1037:1996	Safety of machinery – Prevention of unexpected start-up	9
BS EN 1050:1997	Safety of machinery – Principles for risk assessment	9
BS EN 1088+A1	Safety of machinery - Interlocking devices associated with guards - Principles for design and selection	9
BS EN 1092-1:2007	Flanges and their joints – Circular flanges for pipes, valves, fittings and accessories, PN designated – Part 1: Steel flanges	4
BS EN 1360:2005	Rubber and plastic hoses and hose assemblies for measure fuel dispensing systems – Specification	4
BS EN 1765:1998	Rubber hose assemblies for oil suction and discharge services – Specification for the assemblies	4
BS EN 10226-1:2004	Pipe threads where pressure tight joins are made on the threads Part 1: Taper external threads and parallel internal threads – Dimensions, tolerances and designation	4
BS EN 10226-2:2005	Pipe threads where pressure tight joins are made on the threads Part 2: Taper external and internal threads – Dimensions, tolerances and designation	4
BS EN 10226-3:2005	Pipe threads where pressure tight joins are made on the threads Part 3: Verification by means of limit gauges	4
BS EN 10305-4:2003	Steel tubes for precision applications – Technical delivery conditions Part 4: Seamless cold drawn tubes for hydraulic and pneumatic power systems	4
BS EN 10324:2004	Steel wire and wire products – Hose reinforcement wire	4
BS EN 12622:2001	Safety of machine tools - Hydraulic press brakes	9
BS EN 14359:2017	Gas-loaded accumulators for Fluid Power applications	1
BS EN 14489:2005	Fire-resistant hydraulic fluids - Guidelines for the selection of fluids and the consideration of safety, health and environment hazards	16
BS EN 14832:2005	Petroleum and related products - Determination of the oxidation stability and corrosivity of fire-resistant phosphate ester fluids	16
BS EN 14833:2005	Petroleum and related products - Determination of the hydrolytic stability of fire- resistant phosphate ester fluids	16
BS EN 60204-1:2006+ A1:2009	Safety of machinery – Electrical equipment of machines Part 1: General requirements	9
BS EN 60617-2:1996	Graphical symbols for diagram Part 2: Symbol elements, qualifying symbols and other symbols having general application	9

INTERNATIONAL STANDARDS ORGANISATION CEN - European Committee for Standardisation British Standards Institution

International standards implemented as European and British standards

Number	Title	Key
BS EN ISO 228-1:2003	Pipe threads where pressure-tight joints are not made on the threads Part 1:	4
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BS EN ISO 228-2:2003	Pipe threads where pressure-tight joints are not made on the threads Part 2:	4
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BS EN ISO 1179-1:2013	Connections for general use and fluid power - Ports and stud ends with ISO 228-1	4
	threads with elastomeric or metal-to-metal sealing Part 1: Threaded ports	
BS EN ISO 1179-2:2013	Connections for general use and fluid power - Ports and stud ends with ISO 228-1	4
	threads with elastomeric or metal-to-metal sealing Part 2: Heavy-duty (S series)	
DO EN 100 4470 0 0000	and light duty (L series) stud ends with elastomeric sealing (type E)	
BS EN ISO 1179-3:2008	Connections for general use and fluid power - Ports and stud ends with ISO 228-1	4
	threads with elastomeric or metal-to-metal sealing Part 3: Light-duty (L series) stud	
BS EN ISO 1179-4:2008	ends with sealing by O-ring with retaining ring (types G and H) Connections for general use and fluid power - Ports and stud ends with ISO 228-1	4
BS EN ISO 1179-4.2006	threads with elastomeric or metal-to-metal sealing	4
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BS EN ISO 1307:2008	Rubber and plastics hoses - Minimum and maximum inside diameters and	4
20 211 100 1007.2000	tolerances on cut lengths	•
BS EN ISO 1402:2009	Rubber and plastics hoses and hose assemblies - hydrostatic testing	4
BS EN ISO 1403:2008	Rubber hoses, textile-reinforced for general purpose water applications -	4
	specification	-
BS EN ISO 1746:2001	Rubber or plastics hoses and tubing - bending tests	4
BS EN ISO 2398:2008	Rubber hoses, textile-reinforced for compressed air - specification	4
BS EN ISO 3457:2008	Earth-moving machinery – Guards – Definitions and requirements	4
BS EN ISO 3949:2018	Plastics hoses and hose assemblies – Textile reinforced types for hydraulic	4
	applications - Specification	
BS EN ISO 4259-1:2017	Petroleum products – Precision of measurement methods and results Part 1:	16
	Determination of precision data in relation to methods of test	
BS EN ISO 4259-2:2017	Petroleum products – Precision of measurement methods and results Part 2:	16
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BS EN ISO 4259-3:2020	Petroleum and related products- Precision of measurement methods and results	16
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BS EN ISO 4263-1:2004	Petroleum and related products - Determination of the ageing behaviour of	16
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BS EN ISO 4404-1:2012	Petroleum and related products – Determination of the corrosion resistance of fire-	16
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BS EN ISO 4404-2:2010	Petroleum and related products - Determination of the corrosion resistance of fire-	16
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BS EN ISO 4413:2010	HFP – General rules and safety requirements for systems and their components	9
BS EN ISO 4414:2010	PFP - General rules and safety requirements for systems and their components	9
BS EN ISO 4589-2:1999	Plastics – Determination of burning behaviour by oxygen index Part 2: Ambient	4
2 = 11.20 1000 = 11000	temperature test	
BS EN ISO 4589-3:1996	Plastics – Determination of burning behaviour by oxygen index Part 3: Elevated	4
	temperature test	

INTERNATIONAL STANDARDS ORGANISATION CEN - European Committee for Standardisation British Standards Institution

Number	Title	Key
BS EN ISO 4671:2007+	Rubber and plastics hoses and hose assemblies - Methods of measurement of the	4
A1:2011	dimensions of hoses and lengths of hose assemblies	
BS EN ISO 4672:1999	Rubber and plastics hoses – Sub-ambient temperature flexibility tests	4
BS EN ISO 5774:2016	Plastics hoses – Textile reinforced types for compressed air applications – Specification	4
BS EN ISO 6149-1:2019	Connections for fluid power and general use - Ports and stud ends with ISO 261 threads and O-ring sealing Part 1: Ports with O-ring seal in truncated housing	4
BS EN ISO 6149-2:2006	Connections for fluid power and general use - Ports and stud ends with ISO 261 threads and O-ring sealing Part 2: Heavy-duty (S series) stud ends - Dimensions, design, test methods and requirements	4
BS EN ISO 6149-3:2006	Connections for fluid power and general use - Ports and stud ends with ISO 261 threads and O-ring sealing Part 3: Light-duty (L series) stud ends - Dimensions, design, test methods and requirements	4
BS EN ISO 6149-4:2017	Connections for fluid power and general use – Ports and stud ends with ISO 261 metric threads and O-ring sealing Part 4: Dimensions, design, test methods and requirements for external and internal hex port plugs	4
BS EN ISO 6224:2011	Thermoplastics hoses, textile reinforced for general purpose water applications – Specification	4
BS EN ISO 6743-4:2015	Lubricants, industrial oils and elated products (class L) – Classification Part 4: Family H (hydraulic systems)	16
BS EN ISO 6802:2008	Rubber and plastics hose and hose assemblies with wire reinforcements - Hydraulic impulse test with flexing	4
BS EN ISO 6803:2017	Rubber or plastics hoses and hose assemblies - Hydraulic pressure impulse test without flexing	4
BS EN ISO 6806:1996	Rubber hoses and hose assemblies for use in oil burners - Specification	4
BS EN ISO 6808:2014	Plastics hoses and hose assemblies for suction and low-pressure discharge of petroleum liquids – Specification	4
BS EN ISO 7233:1995	Rubber and plastics hoses and hose assemblies – Determination of suction resistance	4
BS EN ISO 7326:2016	Rubber and plastic hoses – Assessment of ozone resistance under static conditions	4
BS EN ISO 7662:1996	Rubber and plastics hoses – Determination of abrasion of lining	4
BS EN ISO 7751:2016	Rubber and plastics hoses and hose assemblies – Ratios of proof and burst pressure to design working pressure	4
BS EN ISO 8029:2010	Plastics hose – General purpose collapsible water hose, textile reinforced – Specification	4
BS EN ISO 8030:2014	Rubber and plastics hoses – Method of test for flammability	4
BS EN ISO 8031:2009	Rubber and plastics hose and hose assemblies – Determination of electrical resistance and conductivity	4
BS EN ISO 8032:1999	Rubber and plastics hose assemblies – Flexing combined with hydraulic impulse test (half-omega test)	4
BS EN ISO 8033:2016	Rubber and plastics hoses – Determination of adhesion between components	4
BS EN ISO 8308:1996	Rubber and plastics hoses and tubing – Determination of transmission of liquids through hose and tubing walls	4
BS EN ISO 8330:2014	Rubber and plastics hoses and hose assemblies - Vocabulary	4
BS EN ISO 8331:2014	Rubber and plastics hoses and hose assemblies – Guidelines for selection, storage, use and maintenance	4
BS EN ISO 8434-1:2018	Metallic tube connections for fluid power and general use Part 1: 24° cone connectors	4
BS EN ISO 8580:1995	Rubber and plastics hoses – Determination of ultra violet resistance under static conditions	4

INTERNATIONAL STANDARDS ORGANISATION CEN - European Committee for Standardisation British Standards Institution

Number	Title	Key
BS EN ISO 9227:2006	Corrosion tests in artificial atmospheres – Salt spray tests	TCs
BS EN ISO 9974-1:2000	Connections for general use and fluid power - Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing Part 1: Threaded ports	4
BS EN ISO 9974-2:2000	Connections for general use and fluid power - Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing Part 2: Stud ends with elastomeric sealing (type E)	4
BS EN ISO 9974-3:2000	Connections for general use and fluid power - Ports and stud ends with ISO 261 threads with elastomeric or metal-to-metal sealing Part 3: Stud ends with metal-to-metal sealing (type B)	4
BS EN ISO 10619-2: 2018	Rubber and plastics hoses and tubing – Measurement of flexibility and stiffness Part 2: Bending tests at sub-ambient temperatures	45
BS EN ISO 10960:2018	Rubber and plastics hoses – Assessment of ozone resistance under dynamic conditions	45
BS EN ISO 12922:2012	Lubricants, industrial oils and related products (Class L) - Family H (Hydraulic systems) - Specifications for categories HFAE, HFAS, HFB, HFC, HFDR and HFDU	16
BS EN ISO 13849-1: 2008	Safety of machinery - Safety-related parts of control systems Part 1: General principles for design	9
BS EN ISO 13849-2: 2008	Safety of machinery - Safety-related parts of control systems – Part 2: Validation	9
BS EN ISO 14001:2015	Environmental management systems – requirements with guidance for use	-
BS EN ISO 14644-1: 1999	Cleanliness and associated controlled environments Part 1: Classification of air cleanliness	6
BS EN ISO 14935:2020	Petroleum and related products - Determination of wick flame persistence of fire- resistant fluids	16
BS EN ISO 18752:2016	Rubber hoses and hose assemblies – Wire or textile reinforced single pressure types for hydraulic applications – Specification	4
BS EN ISO 19879:2010	Metallic tube connections for fluid power and general use - Test methods for hydraulic fluid power connections	4
BS EN ISO 20623:2018	Petroleum and related products - Determination of the extreme pressure and anti- wear properties of fluids – Four ball method (European conditions)	16
BS EN ISO 20763:2004	Petroleum and related products - Determination of anti-wear properties of hydraulic fluids - Vane pump method	16
BS EN ISO 20764:2003	Petroleum and related products - Preparation of a test portion of high-boiling liquids for the determination of water content - Nitrogen purge method	16
BS EN ISO 20783-1: 2011	Petroleum and related products - Determination of emulsion stability of fire- resistant hydraulic fluids Part 1: Fluids in class HFAE	16
BS EN ISO 20783-2: 2003	Petroleum and related products - Determination of emulsion stability of fire- resistant hydraulic fluids Part 2: Fluids in class HFB	16
BS EN ISO 20843:2011	Petroleum and related products – Determination of pH of fire-resistant fluids within categories HFAE, HFAS and HFC	16
BS EN ISO 20844:2015	Petroleum and related products - Determination of the shear stability of polymer- containing oils using a diesel injector nozzle	16

International standards implemented as British standards

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BS ISO 37:2005	Rubber, vulcanised or thermoplastic – Determination of tensile stress strain	4
BS ISO 48:2007	Rubber, vulcanised or thermoplastic – Determination of hardness (hardness	4
	between 10 IRHD and 100 IRHD)	
BS ISO 188:2007	Rubber, vulcanised or thermoplastic – Accelerated ageing and heat resistance	4
	tests	
BS ISO 815-1:2008	Rubber, vulcanised or thermoplastic – Determination of compression set	4
	Part 1: At ambient or elevated temperatures	
BS ISO 1219-1:2012	Fluid power systems and components – Graphic symbols and circuit diagrams Part	TCs
	1: Graphical symbols for conventional use and data-processing application	
BS ISO 1219-2:2012	Fluid power systems and components – Graphic symbols and circuit diagrams Part	TCs
	2 Circuit diagrams	
BS ISO 1219-3:2016	Fluid power systems and components - Graphical symbols and circuit diagrams -	9
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BS ISO 1436:2020	Rubber hoses and hose assemblies – Wire braid reinforced hydraulic types for oil	4
50.100.4000.4005.44	or water-based fluids – Specification	
BS ISO 1629:1995+A1:	Rubbers and latices – Nomenclature	7
2007	Dukk an index of Determination of the offset of limited	_
BS ISO 1817:2005	Rubber vulcanised – Determination of the effect of liquids	4
BS ISO 2230:2002	Vulcanised rubber – Guide to storage	4
BS ISO 2781:2008 BS ISO 2941:2009	Rubber, vulcanised or thermoplastic – Determination of density	
BS ISO 2942:2004	HFP - Filter elements - Verification of collapse/burst pressure rating	6
BS 15U 2942.2004	HFP – Filter elements – Verification of fabrication integrity and determination of the	0
BS ISO 2943:1998	first bubble point HFP – Filter elements – Verification of material compatibility with fluids	6
BS ISO 2944:2000	Fluid power systems and components – Nominal pressures	TCs
BS ISO 3019-1:2001	HFP – Dimensions and identification code for mounting flanges and shaft ends of	8
B3 13O 3019-1.2001	displacement pumps and motors Part 1: Inch series shown in metric units	0
BS ISO 3019-2:2001	HFP – Dimensions and identification code for mounting flanges and shaft ends of	8
BS 180 3019-2.2001	displacement pumps and motors Part 2: Metric series	U
BS ISO 3320:2013	Fluid power systems and components – Cylinder bores and piston rod diameters	3
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BS ISO 3322:1985	Fluid power systems and components – Cylinders – Nominal pressures	3
BS ISO 3601-1:2012+	Fluid power systems – O-rings Part 1: Inside diameters, cross-sections, tolerances	7
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BS ISO 3601-2:2016+	Fluid Power Systems - O-rings Part 2: Housing dimensions for general applications	7
Corr July 2017		
BS ISO 3601-3:2005+	Fluid Power Systems - O-rings Part 3: Quality acceptance criteria	7
A1:2018		
BS ISO 3601-4:2008	Fluid Power Systems - O-rings Part 4: Anti-extrusion rings (back-up rings)	7
BS ISO 3601-5:2015+	Fluid Power Systems - O-rings Part 5: Specification of elastomeric materials for	7
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BS ISO 3723:2015	HFP – Filter elements – Method for end load test	6
BS ISO 3724:2007	HFP – Filter elements – Determination of resistance to flow fatigue using	6
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BS ISO 3862:2020	Rubber hoses and hose assemblies – Rubber covered spiral wire reinforced	4
	hydraulic types for oil or water-based fluids – Specification	
BS ISO 3968:2017	HFP – Filters – Evaluation of differential pressure versus flow characteristics	6
BS ISO 4079:2020	Rubber hoses and hose assemblies – Textile reinforced hydraulic types for oil or	4
	water-based fluids - Specification	

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BS ISO 4392-1:2002	HFP – Determination of characteristics of motors Part 1: At constant low speed	8
	and constant pressure	
BS ISO 4392-2:2002	HFP – Determination of characteristics of motors Part 2: Startability	8
BS ISO 4393:2015	Fluid power systems and components – Cylinders – Basic series of piston strokes	3
BS ISO 4395:2009+	Fluid power systems and components – Cylinder piston rod end types and	3
Corr:2010	dimensions	
BS ISO 4397:2011	Fluid power connectors and associated components – Nominal outside diameters of tubes and nominal hose sizes	4
BS ISO 4399:2019	Fluid Power Systems and Components - Connectors and associated components - Nominal pressures	4
BS ISO 4401:2005	HFP – Four-port directional control valves – Mounting surfaces	5
BS ISO 4406:2017+	HFP – Fluids – Method for coding the level of contamination by solid particles	6
Corr August 2018		
BS ISO 4407:2002	HFP – Fluid Contamination – Determination of particulate contamination by the counting method using an optical microscope	6
BS ISO 4409:2019	HFP – Positive displacement pumps, motors and integral transmissions –	8
	Methods of testing and presenting basic steady state performance	
BS ISO 4411:2019	HFP – Valves – Determination of pressure differential/flow characteristics	4
BS ISO 5391:2003	Pneumatic tools and machines - Vocabulary	TCs
BS ISO 5596:1999	HFP – Gas-loaded accumulators with separator – Ranges of pressures and	1
	volumes and characteristic quantities	
BS ISO 5597:2018	HFP – Cylinders – Dimensions and tolerances of housings for single acting piston and rod seals in reciprocating application	7
BS ISO 5598:2020	Fluid power systems and components - Vocabulary	TCs
BS ISO 5599-1:2001+	PFP – Five-port directional control valves Part 1: Mounting interface surfaces	5
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BS ISO 5599-2:2001+	PFP – Five-port directional control valves Part 2: Mounting interface surfaces with	5
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BS ISO 5781:2016	HFP – Pressure reducing valves, sequence valves, unloading valves, throttle valves and check valves – Mounting surfaces	5
BS ISO 5782-1:2017	PFP – Compressed air filters Part 1: Main characteristics to be included in supplier's literature and product marking requirements	5
BS ISO 5782-2:1997	PFP – Compressed air filters Part 2: Test methods to determine the main	5
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BS ISO 5783:2019	HFP - Code for identification of valve mounting surfaces and cartridge valve cavities	5
BS ISO 6020-1:2007	HFP – Mounting dimensions for single rod cylinders, 16 MPa (160 bar) series Part 1: Medium series	3
BS ISO 6020-2:2015	HFP – Mounting dimensions for single rod cylinders, 16 MPa (160 bar) series Part 2: Compact series	3
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BS ISO 6099:2018	Fluid power systems and components – Cylinder – Identification code for mounting dimensions and mounting types	3
BS ISO 6150:2018	PFP – cylindrical quick-action couplings for maximum working pressures of 10, 16 and 25 bar (1, 1,6 and2,5 MPa) – Plug connecting dimensions, specifications, application guidelines and testing	4
BS ISO 6162-1:2012	HFP – Flange connectors with split or one-piece flange clamps and metric or inch screws – Part 1: Flange connectors, ports and mounting surfaces for use at pressures of 3,5 MPa (35 bar) to 35 MPa (350 bar), DN 13 to DN 127	4
BS ISO 6162-2:2018	HFP - Flange connectors with split or one-piece flange clamps and metric or inch screws – Part 2: Flange connectors, ports and mounting surfaces for use at pressures of 42 MPa (420 bar), DN 13 to DN 127	4
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BS ISO 6194-2:2009	Rotary shaft lip-type seals incorporating elastomeric sealing elements Part 2: Vocabulary	7
BS ISO 6194-3:2009	Rotary shaft lip-type seals incorporating elastomeric sealing elements Part 3: Storage, handling and installation	7
BS ISO 6194-4:2009	Rotary shaft lip-type seals incorporating elastomeric sealing elements Part 4: Performance test procedures	7
BS ISO 6194-5:2008	Rotary shaft lip-type seals incorporating elastomeric sealing elements Part 5: Identification of visual imperfections	7
BS ISO 6195:2013	Fluid power systems and components – Cylinder-rod wiper-ring housings in reciprocating applications – Dimensions and tolerances	7
BS ISO 6263:2013	HFP – Compensated flow-control valves – Mounting surfaces	5
BS ISO 6264:1998	HFP – Pressure relief valves – Mounting surfaces	5
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ISO 11926-2:1995	Connections for general use and fluid power - Ports and stud ends with ISO 725	4
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ISO 11926-3:1995	Connections for general use and fluid power - Ports and stud ends with ISO 725	4
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ISO 11237:2010	Rubber and hoses and hose assemblies - wire braid - reinforced compact types	4
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	fire-resistant fluids Part 1: Spray flame persistence - Hollow-cone nozzle method	
ISO 15086-3:2008	HFP - Determination of fluid borne noise characteristics of components and	8
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ISO 16031-1:2002	Aerospace fluid systems - O-rings, inch series - Inside diameters and cross-	7
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