

BUREAU OF INDIAN STANDARDS

Program of Work

PGD 36 : Fluid Power System

Scope: a) Standardization in the field of terminology, classifications, symbols, fluid logic, and fluid properties, contamination control, components marking systems and identification codes, sealing devices and their related parameters; hydraulic components and their testing, maintenance and installations; pneumatic components and their testing, installation and maintenance. b) Standardization in the field of ports, fittings, tubes and tube, hoses & hose assemblies and their testing. c) Liaison with: (i) ISO/TC 131 Fluid power systems (P-Member) (ii) ISO/TC 131/SC 1 Terminology, Classification and symbols (P-Member) (iii) ISO/TC 131/SC 2 Pumps, motors and integral transmissions (P-Member) (iv) ISO/TC 131/SC 3 Cylinders (P-Member) (v) ISO/TC 131/SC 4 Connectors and similar products and components (Member) (vi) ISO/TC 131/SC 5 Control products and components (P-Member) (vii) ISO/TC 131/SC 6 Contamination control (P-Member) (viii) ISO/TC 131/SC 8 Product testing (P-Member) (ix) ISO/TC 131/SC 9 Installations and systems (P-Member)

Liaison: **ISO TC-131 (P): Fluid power systems ISO TC-131 SC-1 (P): Symbols, terminology and classifications TC-131 SC-2 (P): ISO TC-131 SC-3 (P): Cylinders ISO TC-131 SC-4 (P): Connectors and similar products and components ISO TC-131 SC-5 (P): Control products and components ISO TC-131 SC-6 (P): Contamination control ISO TC-131 SC-7 (O): Sealing devices ISO TC-131 SC-8 (P): Product testing ISO TC-131 SC-9 (P): Installations and systems**

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 10069 : 2023 ISO 4409 : 2019 ISO 4409 : 2019	Hydraulic fluid power Positive-Displacement Pumps Motors and Integral Transmissions Methods of Testing and Presenting Basic Steady State Performance		-	Identical under dual numbering
2	IS 10103 : 1982 Reviewed In : 2020	Method of test for ferrule type couplings used in oil - Hydraulic systems	January, 2020	3	Indigenous
3	IS 10129 : 2004 ISO 3019-2 Reviewed In : 2020 ISO 3019-2:2001	Hydraulic fluid power - Dimensions and identification code for mounting flanges and shaft ends of displacement pumps and motors (Second Revision)	February, 2020	-	Identical under dual numbering
4	IS 10143 : 1995 ISO 6431 Reviewed In : 2020 ISO 6431 : 1992	Pneumatic fluid power - Single rod cylinders, 1000 kPa (10 Bmar) series, with detachable mountings, bores from 32 mm to 320 mm - Mounting dimensions (First Revision)	February, 2020	-	Identical under dual numbering
5	IS 10187 : 2013	Hydraulic fluid power - Four - Port	February, 2020	-	Identical under dual

	ISO 4401 : 2005 Reviewed In : 2020 ISO 4401 : 2005	directional control valves - Mounting surfaces (Second Revision)			numbering
6	IS 10410 : 1983 Reviewed In : 2024	Specification for lock nuts for bulk head coupling assembly for oil - Hydraulic systems	September, 2024	1	Indigenous
7	IS 10411 : 2020 ISO 4393 : 2015 ISO 4393 : 2015	Fluid Power Systems and Components — Cylinders — Basic Series of Piston Strokes (First Revision)	-	-	Identical under dual numbering
8	IS 10416 : 2019 ISO 5598 : 2008 ISO 5598 : 2008	Fluid Power Systems and Components ? Vocabulary (Second Revision)	-	-	Identical under dual numbering
9	IS 10417 : 1983 Reviewed In : 2024	Specification for equal cross coupling assembly for oil - Hydraulic systems	September, 2024	2	Indigenous
10	IS 10433 (Part 1) : 2023	Male Stud Tee Body Stud Run for Oil-Hydraulic Coupling Specification Part 1 Made from Forgings		-	Indigenous
11	IS 10433 (Part 2) : 2002 Reviewed In : 2024	Male stud tee body (Stud Run) for oil - Hydraulic couplings - Specification: Part 2 made from bar stock (First Revision)	September, 2024	-	Indigenous
12	IS 10453 (Part 1) : 2023	Taper Male Stud Tee Body Stud Run for Oil Hydraulic Couplings Specification Part 1 Made from Forgings		-	Indigenous
13	IS 10453 (Part 2) : 2023	Taper Male Stud Tee Body Stud Run for Oil Hydraulic Couplings Specification Part 2 Made from Bar Stock		-	Indigenous
14	IS 10480 : 1983 Reviewed In : 2018	Specification for stud run tee coupling assemblies for oil - Hydraulic systems	November, 2018	-	Indigenous
15	IS 10480 : 2024	Stud run tee coupling assemblies for oil hydraulic systems $\frac{1}{2}$ Specification (Second Revision)		-	Indigenous
16	IS 10481 : 2020 ISO 4413 : 2010 ISO 4413 : 2010	Hydraulic Fluid Power — General Rules and Safety Requirements for Systems and their Components (Second Revision)	-	-	Identical under dual numbering
17	IS 10585 : 2023 ISO 10100 : 2020 ISO 10100 : 2020	Hydraulic fluid power Cylinders Acceptance tests		-	Identical under dual numbering
18	IS 10956 : 2023	Welding coupling body for oil hydraulic couplings - Specification		-	Indigenous
19	IS 10978 : 1984 Reviewed In : 2020	Specification for welding coupling assembly for oil - Hydraulic systems	February, 2020	1	Indigenous
20	10983 : 2021 ISO 5597 : 2018 ISO 5597 : 2018	Hydraulic Fluid Power - Cylinders - Dimensions and Tolerances of Housings for Single-Acting Piston and Rod Seals in Reciprocating Applications (Second Revision)		-	Identical under dual numbering
21	IS 11003 (Part 1) : 2017 ISO 6020-1 : 2007 Reviewed In : 2024	Hydraulic fluid power - Mounting dimensions for single rod cylinders, 16 mpa (160 Bar) series: Part 1 medium series (Second Revision)	September, 2024	-	Identical under dual numbering

	ISO 6020-1:2007				
22	IS 11003 (Part 2) : 2020 ISO 6020-2 : 2015 ISO 6020-2 : 2015	Hydraulic Fluid Power — Mounting Dimensions for Single Rod Cylinders, 16 MPa (160 bar) Series Part 2 Compact Series (Second Revision)	-	-	Identical under dual numbering
23	IS 11146 : 1999 ISO 7181 Reviewed In : 2024 ISO 7181 : 1991	Hydraulic fluid power - Cylinders - Bore and rod area ratios (First Revision)	September, 2024	-	Identical under dual numbering
24	IS 11147 : 1984 ISO 4391 Reviewed In : 2020 ISO 4391 : 1983	Recommendations for parameter definitions and letter symbols for hydraulic fluid power pumps, motors and integral transmissions	February, 2020	-	Identical under dual numbering
25	IS 11245 : 1999 Reviewed In : 2020	Pneumatic cylinders purchase - Specification (First Revision)	February, 2020	-	Indigenous
26	IS 11277 : 2004 ISO 5596 Reviewed In : 2020 ISO 5596 : 1999	Hydraulic fluid power - Gas - Loaded accumulators with separator - Ranges of pressures and volumes and characteristic quantities (First Revision)	February, 2020	-	Identical under dual numbering
27	IS 11337 : 2002 Reviewed In : 2024	Purchase Specification for hydraulic cylinders (First Revision)	September, 2024	-	Indigenous
28	IS 11559 : 1995 ISO 6982 Reviewed In : 2020 ISO 6982 : 1992	Hydraulic fluid power - Cylinders - Rod end spherical eyes - Mounting dimensions (First Revision)	February, 2020	-	Identical under dual numbering
29	IS 11560 : 1995 ISO 6981 Reviewed In : 2020 ISO 6661: 1962	Hydraulic fluid power - Cylinders - Rod end plain eyes - Mounting dimensions (First Revision)	February, 2020	-	Identical under dual numbering
30	IS 11845 (Part 1) : 1994 ISO 5784-1 Reviewed In : 2020 ISO 5784-1 : 1988	Fluid logic circuits for fluid power systems: Part 1 symbols for binary logic and related functions (First Revision)	February, 2020	-	Identical under dual numbering
31	IS 11845 (Part 2) : 1995 ISO 5784-2 Reviewed In : 2020 ISO 5784-2 : 1989	Fluid Logic circuits for fluid - Power systems: Part 2 symbols for supply and exhausts as related to logic symbols (First Revision)	February, 2020	-	Identical under dual numbering
32	IS 11845 (Part 3) : 1994 ISO 5784-3 Reviewed In : 2020 ISO 5784-3 : 1989	Fluid logic circuits for fluid power systems: Part 3 symbols for logic sequencers and related functions	February, 2020	-	Identical under dual numbering
33	12092 : 2021 ISO 6605 : 2017 ISO 6605 : 2017	Hydraulic Fluid Power - Test Methods for Hoses and Hose Assemblies (First Revision)		-	Identical under dual numbering
34	IS 12096 : 1987 Reviewed In : 2024	Specification for hexagon socket screw plugs with parallel screw threads for fluid power system	September, 2024	1	Indigenous
35	IS 12116 (Part 1) : 1987 Reviewed In : 2024	Specification for hexagon head taper plugs for oil hydraulic systems: Part 1 made from forgings	September, 2024	-	Indigenous
36	IS 12484 : 1999 Reviewed In : 2020	Cup seal for fluid power applications - Specification (First Revision)	February, 2020	-	Indigenous
37	IS 12485 : 1988	Specification for metal bonded	February, 2020	-	Indigenous

	Reviewed In : 2020	seals			
38	IS 12498 : 1988 Reviewed In : 2024	Method of test for evaluation of performance of air pressure regulators	September, 2024	-	Indigenous
39	IS 12593 : 2000 ISO 8131 Reviewed In : 2020 ISO 8131 : 1992	Hydraulic fluid power - Single rod cylinders, 16 mpa (160 Bar) compact series - Tolerances (First Revision)	February, 2020	-	Identical under dual numbering
40	IS 12597 : 1988 Reviewed In : 2024	Recommendation on units for fluid power system	September, 2024	-	Indigenous
41	IS 12723 : 2020 ISO 6432 : 2015 ISO 6432 : 1985	Pneumatic Fluid Power - Single Rod Cylinders, 1 000 kPa (10 bar) series, bores from 8 mm to 25 mm - Basic and Mounting Dimensions (First Revision)	-	-	Identical under dual numbering
42	12725 : 2021 ISO 4414 : 2010 ISO 4414 : 2010	Pneumatic Fluid Power - General Rules and Safety Requirements for Systems and their Components (Second Revision)		-	Identical under dual numbering
43	IS 12738 : 1995 ISO 6430 Reviewed In : 2020 ISO 6430 : 1992	Pneumatic fluid power 7 single rod cylinders, 1 000 kPa (10 bar) Series, With Integral Mountings, Bores From 32 Mm To 250 Mm - Mounting Dimensions (First Revision)	February, 2020	-	Identical under dual numbering
44	IS 13053 : 1991 Reviewed In : 2024	Hydraulic fluid power system commissioning and maintenance of complete hydraulic systems recommendations	September, 2024	-	Indigenous
45	IS 13085 : 1991 ISO 8136 Reviewed In : 2024 ISO 8136 : 1986	Hydraulic fluid power - Single rod cylinders, 160 bar (16 Mpa) medium series - Port dimensions	September, 2024	-	Identical under dual numbering
46	13086 : 2021 ISO 8139 : 2018 ISO 8139 : 2018	Pneumatic Fluid Power - Cylinders, 1 000 kPa (10 bar) Series - Mounting Dimensions of Rod-end Spherical Eyes (Second Revision)		-	Identical under dual numbering
47	13087 : 2021 ISO 8140 : 2018 ISO 8140 : 2018	Pneumatic Fluid Power - Cylinders, 1 000 kpa (10 bar) Series - Mounting Dimensions of Rod-end Clevises (Second Revision)		-	Identical under dual numbering
48	IS 13102 : 1991 ISO 8137 Reviewed In : 2024 ISO 8137 : 1986	Hydraulic - Fluid power - Single rod cylinders, 250 bar (25 Mpa) series - Port dimensions	September, 2024	-	Identical under dual numbering
49	IS 13103 : 2005 ISO 8138 Reviewed In : 2020 ISO 8138:1998	Hydraulic fluid power - Single rod cylinders, 16 mpa (160 Bar) compact series - Port dimensions (First Revision)	February, 2020	-	Identical under dual numbering
50	13170 : 2021 ISO 6149-1 : 2019 ISO 6149-1 : 2019	Connections for hydraulic fluid power and general use - Ports and stud ends with ISO 261 metric threads and O-ring sealing Part 1: Ports with truncated housing for O-ring seal		-	Identical under dual numbering
51	13170 : 2021 ISO 6149-2 : 2006	Connections for Hydraulic Fluid Power and General Use - Ports and		-	Identical under dual numbering

	ISO 6149-2 : 2006	Stud Ends with ISO 261 Metric Threads and O-Ring Sealing Part 2 Dimensions, Design, Test Methods and Requirements for Heavy-Duty (S Series) Stud Ends (First Revision)			
52	13170 : 2021 ISO 6149-3 : 2006 ISO 6149-3 : 2006	Connections for Hydraulic Fluid Power and General Use — Ports and Stud Ends with ISO 261 Metric Threads and O-Ring Sealing Part 3 Dimensions, Design, Test Methods and Requirements for Light-Duty (L Series) Stud Ends (First Revision)		-	Identical under dual numbering
53	IS 13251 : 2019 ISO 8132 : 2014 ISO 8132:2014	Hydraulic fluid power ? mounting dimensions for accessories for single rod cylinders, 16 mpa (160 Bar) medium and 25 mpa (250 Bar) series (First Revision)	-	-	Identical under dual numbering
54	IS 13336 : 1992 Reviewed In : 2024	Reducer coupling assemblies for oil hydraulic system - Specification	September, 2024	1	Indigenous
55	IS 13337 : 1992 Reviewed In : 2024	Straight reducer coupling body for oil hydraulic system - Specification	September, 2024	1	Indigenous
56	IS 13338 : 1992 Reviewed In : 2024	Hexagonal head screw plugs with shoulder and parallel screw threads - Specification	September, 2024	-	Indigenous
57	IS 13434 : 2005 ISO 8135 Reviewed In : 2020 ISO 8135:1999	Hydraulic fluid power - Single rod cylinders, 16 mpa (160 Bar) medium and 25 mpa (250 Bar) series - Tolerances (First Revision)	February, 2020	-	Identical under dual numbering
58	IS 13533 : 2019 ISO 4395 : 2009 Reviewed In : 2023 ISO 4395:2009	Fluid power systems and components ? cylinder piston rod end types and dimensions (First Revision)	August, 2023	-	Identical under dual numbering
59	IS 13534 : 2023 ISO 4411 : 2019 ISO 4411 : 2019	Hydraulic Fluid Power Valves Determination of Pressure Differential Flow Characteristics		-	Identical under dual numbering
60	IS 13534 : 2023 ISO 4411 : 2019 ISO 4411 : 2019	Hydraulic Fluid Power Valves Determination of Pressure Differential Flow Characteristics		-	Identical under dual numbering
61	IS 13535 : 2017 ISO 16889 : 2008 Reviewed In : 2024 ISO 16889 : 2008	Hydraulic fluid power - Filters - Filter multi - Pass method for evaluating filtration performance of filter element (Second Revision)	September, 2024	-	Identical under dual numbering
62	IS 13542 : 2023 ISO 4406 : 2021 ISO 4406 : 2021	Hydraulic fluid power Fluids Method for coding the level of contamination by solid particles		-	Identical under dual numbering
63	IS 13569 : 1993 ISO 3722 Reviewed In : 2023 ISO 3722 : 1976	Hydraulic fluid power - Fluid sample containers - Qualifying and controlling cleaning methods	August, 2023	-	Identical under dual numbering
64	IS 13570 : 2000 ISO 4021 Reviewed In : 2023 ISO 4021 : 1992	HYDRAULIC FLUID POWER - PARTICULATE CONTAMINATION ANALYSIS - EXTRACTION OF FLUID SAMPLES FROM LINES OF AN OPERATING SYSTEM (First Revision)	August, 2023	-	Identical under dual numbering
65	IS 13571 : 2020	Hydraulic Fluid Power —	-	-	Identical under dual

	ISO 11171 : 2016 ISO 11171-2016	Calibration of Automatic Particle Counters for Liquids (First Revision)			numbering
66	13614 : 2021 ISO 7241 : 2014 ISO 7241 : 2014	Hydraulic Fluid Power - Dimensions and Requirements of Quick-Action Couplings Part 1 Dimensions and Requirements (First Revision)		-	Identical under dual numbering
67	IS 13614 (Part 2) : 1993 ISO 7241-2 Reviewed In : 2024 ISO 7241-2 : 1986	Hydraulic fluid power - Quick - Action couplings: Part 2 test methods	September, 2024	-	Identical under dual numbering
68	IS 13617 : 1992 Reviewed In : 2024	Evaluation of pressure drop versus flow characteristics of pneumatic filters - Method of test	September, 2024	-	Indigenous
69	IS 13876 (Part 1) : 1993 Reviewed In : 2024	Guide for marking system for fluid power components: Part 1 cylinders	September, 2024	-	Indigenous
70	IS 13876 (Part 2) : 1993 Reviewed In : 2024	Guide for marking system for fluid power components: Part 2 valves	September, 2024	-	Indigenous
71	IS 13876 (Part 3) : 1993 Reviewed In : 2024	Guide for marking system for fluid power components: Part 3 pumps and motors	September, 2024	-	Indigenous
72	14148 : 2021 ISO 5781 : 2016 ISO 5781 : 2016	Hydraulic Fluid Power - Pressure-reducing Valves, Sequence Valves, Unloading Valves, Throttle Valves and Check Valves - Mounting Surfaces (Second Revision)		-	Identical under dual numbering
73	IS 14150 : 2005 ISO 6264 Reviewed In : 2020 ISO 6264:1998	Hydraulic fluid power - Pressure relief valves - Mounting surfaces (First Revision)	February, 2020	-	Identical under dual numbering
74	IS 14167 : 2019 ISO 10099 : 2001 Reviewed In : 2023 ISO 10099:2001	Pneumatic fluid power ? cylinders ? final examination and acceptance criteria (First Revision)	August, 2023	-	Identical under dual numbering
75	IS 14235 : 1995 Reviewed In : 2020	Wiper seals used for fluid power application - Specification	February, 2020	-	Indigenous
76	IS 14236 : 1995 Reviewed In : 2020	Sealsfor reciprocating applications used in fluid power systems methods of test	February, 2020	-	Indigenous
77	IS 14237 : 1995 Reviewed In : 2020	U - Type seals with asymmetrical and symmetrical lips used for fluid power application - Specification	February, 2020	-	Indigenous
78	14423 : 2021 ISO 4399 : 2019 ISO 6432 : 2015	Fluid Power Systems and Components - Connectors and Associated Components - Nominal Pressures (First Revision)		-	Identical under dual numbering
79	IS 14528 : 1998 Reviewed In : 2024	Tube end straight reducers for oil - Hydraulic couplings	September, 2024	-	Indigenous
80	IS 14601 : 1998 Reviewed In : 2020	Method for presenting performance data for hydraulic pumps	February, 2020	-	Indigenous
81	IS 14602 : 1999 Reviewed In : 2024	Installation methods of positive displacement hydraulic pumps and motors - Guidelines	September, 2024	1	Indigenous
82	IS 14604 : 1998	Proforma for purchase	September, 2024	-	Indigenous

	Reviewed In : 2024	Specification for positive displacement pumps and motors used in oil hydraulic systems			
83	IS 14740 (Part 1) : 2021 ISO 6358-1 : 2013 ISO 6358-1 : 2013	Pneumatic Fluid Power - Determination of Flow-Rate Characteristics of Components Using Compressible Fluids Part 1 General Rules and Test Methods for Steady-State Flow (First Revision)		-	Identical under dual numbering
84	IS 14740 (Part 2) : 2021 ISO 6358-2 : 2019 ISO 6358-2 : 2019	Pneumatic Fluid Power - Determination of Flow-Rate Characteristics of Components Using Compressible Fluids Part 2 Alternative Test Methods (First Revision)		-	Identical under dual numbering
85	IS 14740 (Part 3) : 2021 ISO 6358-3 : 2014 ISO 6358-3 : 2014	Pneumatic Fluid Power - Determination of Flow-Rate Characteristics of Components Using Compressible Fluids Part 3 Method for Calculating Steady-State Flow-Rate Characteristics of Systems (First Revision)		1	Identical under dual numbering
86	IS 14848 : 2000 ISO 3662 Reviewed In : 2020 ISO 3662 : 1976	Hydraulic fluid power - Pumps and motors - Geometric displacements	February, 2020	-	Identical under dual numbering
87	IS 14849 (Part 1) : 2017 ISO 4392-1 : 2002 Reviewed In : 2024 ISO 4392-1 : 2002	Hydraulic fluid power - Determination of characteristics of motors: Part 1 at constant low speed and at constant pressure (First Revision)	September, 2024	-	Identical under dual numbering
88	IS 14849 (Part 2) : 2018 ISO 4392-2 : 2002 Reviewed In : 2024 ISO 4392-2	Hydraulic fluid power - Determination of characteristics of motors: Part 2 startability (First Revision)	September, 2024	-	Identical under dual numbering
89	IS 14849 (Part 3) : 2005 ISO 4392-3 Reviewed In : 2020 ISO 4392-3:1993	Hydraulic fluid power - Determination of characteristics of motors: Part 3 at constant flow and at constant torque	February, 2020	-	Identical under dual numbering
90	IS 14875 : 2000 Reviewed In : 2024 ISO 5782-1 : 1997	Compressed air filters - Evaluation parameters	September, 2024	-	Not Equivalent
91	IS 14876 : 2020 ISO 6301-1:2017	Pneumatic Fluid Power ? Compressed-air lubricators Part 1 Main Characteristics to be Included in Supplier's Literature and Product-marking Requirements (First Revision)	-	-	Identical under dual numbering
92	15045 : 2021 ISO 5599-1 : 2001 ISO 5599-1 : 2001	Pneumatic Fluid Power - Five-Port Directional Control Valves Part 1 Mounting Interface Surfaces without Electrical Connector (First Revision)		-	Identical under dual numbering
93	15045 : 2021 ISO 5599-2 : 2001 ISO 5599-2:2001	Pneumatic Fluid Power - Five-Port Directional Control Valves Part 2 Mounting Interface Surfaces with		-	Identical under dual numbering

		Optional Electrical Connector (First Revision)			
94	IS 15045 (Part 3) : 2001 ISO 5599-3 Reviewed In : 2024 ISO 5599-3:1990	Pneumatic fluid power - Five port directional control valves: Part 3 code system for communication of valve functions	September, 2024	-	Identical under dual numbering
95	IS 15097 : 2002 ISO 6150 Reviewed In : 2024 ISO 6150:1988	Pneumatic fluid power - Cylindrical quick - Action couplings for maximum working pressures of 10 bar, 16 bar and 25 bar (1 Mpa, 1.6 Mpa And 2.5 Mpa) - Plug connecting dimensions, Specifications, application guidelines and testing	September, 2024	-	Identical under dual numbering
96	IS 15168 : 2022 ISO 6099 : 2018 ISO 6099 : 2018	Fluid Power Systems And Components Cylinders Identification Code For Mounting Dimensions And Mounting Types First revision of IS 15168 Adoption of ISO 6099 : 2018 ICS 2310020		-	Identical under dual numbering
97	IS 15170 : 2017 ISO/TR 10949 : 2002 Reviewed In : 2024 ISO/TR 10949 : 2002	Hydraulic fluid power - Component cleanliness - Guidelines for achieving and controlling cleanliness of components from manufacturer to installation (First Revision)	September, 2024	-	Identical under dual numbering
98	IS 15179 : 2002 ISO 6072 Reviewed In : 2023 ISO 6072:2011	Hydraulic fluid power - Compatibility between elastomeric materials and fluids	August, 2023	-	Identical under dual numbering
99	IS 15181 (Part 1) : 2024 ISO 9110-1 : 2020 ISO 9110-1 : 2020	Hydraulic Fluid Power $i_c^{1/2}$ Measurement Techniques Part 1 General Measurement Principles (First Revision)		-	Identical under dual numbering
100	IS 15181 (Part 2) : 2024 ISO 9110-2 : 2020 ISO 9110-2 : 2020	Hydraulic Fluid Power $i_c^{1/2}$ Measurement Techniques $i_c^{1/2}$ Part 2 Measurement of Average Steady-State Pressure in a Closed Conduit (First Revision)		-	Identical under dual numbering
101	IS 15276 : 2002 ISO 8434-4 Reviewed In : 2024 ISO 8434-4:1995	Metallic tube connections for fluid power and general use 24° cone connectors with o - Ring weld - On nipples	September, 2024	-	Identical under dual numbering
102	IS 15277 : 2002 ISO 8434-5 Reviewed In : 2024 ISO 8434-5:1995	Metallic tube connections for fluid power and general use test methods for threaded hydraulic fluid power connections	September, 2024	-	Identical under dual numbering
103	IS 15331 : 2003 ISO 11727 Reviewed In : 2023 ISO 11727:1999	Pneumatic fluid power - Identification of ports and control mechanisms of control valves and other components	August, 2023	-	Identical under dual numbering
104	IS 15332 : 2003 ISO 7285 Reviewed In : 2023 ISO 7285:1995	Pneumatic cylinders for mechanized multiple spot welding	August, 2023	-	Identical under dual numbering
105	IS 15432 : 2003 ISO 7986	Hydraulic fluid power - Sealing devices - Standard test methods to	August, 2023	-	Identical under dual numbering

	Reviewed In : 2023 ISO 7986:1997	assess the performance of seals used in oil hydraulic reciprocating applications			
106	IS 15577 (Part 1) : 2005 ISO 9974-1 Reviewed In : 2020 ISO 9974-1:1996	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	February, 2020	-	Identical under dual numbering
107	IS 15577 (Part 2) : 2005 ISO 9974-2 Reviewed In : 2020 ISO 9974-2:1996	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)	February, 2020	-	Identical under dual numbering
108	IS 15577 (Part 3) : 2005 ISO 9974-3 Reviewed In : 2022 ISO 9974-3:1996	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)	March, 2022	-	Identical under dual numbering
109	IS 17091 : 2023 ISO 14743 : 2020 ISO 14743 : 2020	Pneumatic Fluid Power Push-in Connectors for Thermoplastic Tubes		-	Identical under dual numbering
110	IS 17215 : 2019	Fluid Power System • Hexagon Socket Screw Plugs with Parallel Screw Threads with Elastomeric Sealing • Specification		-	Indigenous
111	IS 18159 : 2023	Online Leakage Sealing Systems Code of Practise		-	Indigenous
112	IS/ISO 3939 : 1977 Reviewed In : 2023 ISO 3939 : 1977	Fluid power systems and components - Multiple lip packing sets - Methods for measuring stack heights	August, 2023	-	Identical under single numbering
113	IS/ISO 4412-1 : 1991 Reviewed In : 2020 ISO 4412 - 1 : 1991	Hydraulic fluid power - Test code for determination of airborne noise levels: Part 1 pumps	January, 2020	-	Identical under single numbering
114	IS/ISO 4412-2 : 1991 Reviewed In : 2020 ISO 4412-2:1991	Hydraulic fluid power - Test code for determination of airborne noise levels: Part 2 motors	January, 2020	-	Identical under single numbering
115	IS/ISO 4412-3 : 1991 Reviewed In : 2020 ISO 4412-3 : 1991	Hydraulic fluid power - Test code for determination of airborne noise levels: Part 3 pumps - Method using a parallelepiped microphone array	January, 2020	-	Identical under single numbering
116	IS 5107 : 2004 ISO 2944 Reviewed In : 2020 ISO 2944:2000	Fluid power systems and components - Nominal pressures (First Revision)	January, 2020	-	Identical under dual numbering
117	IS 5108 : 1969 Reviewed In : 2024	Recommendation on nominal rates of flow for oil - Hydraulic system elements	September, 2024	-	Indigenous
118	IS 5109 : 1969 Reviewed In : 2024	Recommendation on nominal bores for oil - Hydraulic system elements	September, 2024	-	Indigenous
119	IS/ISO 6547 : 1981 Reviewed In : 2020 ISO 6547 : 1981	Hydraulic fluid power - Cylinders - Piston seal housings incorporating bearing rings - Dimensions and tolerances	January, 2020	-	Identical under single numbering

120	IS/ISO 7425-1 : 2021 ISO 7425-1 : 2021 ISO 7425-1 : 2021	Hydraulic Fluid Power Cylinders $i_{c}^{1/2}$ Dimensions and Tolerances of Housings for Elastomer-Energized, Plastic-Faced Seals Part 1 Piston Seal Housings		-	Identical under single numbering
121	IS/ISO 7425-2 : 1989 Reviewed In : 2020 ISO 7425-2:1989	Hydraulic fluid power - Housings for elastomer - Energized, plastic - Faced seals - Dimensions and tolerances: Part 2 rod seal housings	January, 2020	-	Identical under single numbering
122	IS 7513 (Part 1) : 2019 Reviewed In : 2023 ISO 1219-1:2012	Fluid Power Systems and Components • Graphical Symbols and Circuit Diagrams Part 1 Graphical Symbols for Conventional Use and Data-Processing Applications (First Revision)	August, 2023	-	Identical under dual numbering
123	IS 7513 (Part 2) : 2019 ISO 1219-2 : 2012 Reviewed In : 2023 ISO 1219-2:2012	Fluid power systems and components ? graphical symbols and circuit diagrams: Part 2 circuit diagrams (First Revision)	August, 2023	-	Identical under dual numbering
124	IS 7513 (Part 3) : 2021 ISO 1219-3 : 2016 ISO 1219-3 : 2016	Fluid Power Systems and Components Graphical Symbols and Circuit Diagrams Part 3 Symbol modules and connected symbols in circuit diagrams ICS 0108030 2310001 Adoption of ISO 1219-3 : 2016		-	Identical under dual numbering
125	IS 8208 : 2020 ISO 3320 : 2013 ISO 3320 : 2013	Fluid Power Systems and Components — Cylinder Bores and Piston Rod Diameters and Area Ratios — Metric Series (Second Revision)	-	-	Identical under dual numbering
126	IS 8383 : 2023 ISO 2942 : 2018 ISO 2942 : 2018	Hydraulic Fluid Power Filter Elements Verification of Fabrication Integrity and Determination of the First Bubble Point		-	Identical under dual numbering
127	IS 8384 : 2013 ISO 2941: 2009 Reviewed In : 2020 ISO 2941 : 2009	Hydraulic fluid power - Filter elements - Verification of collapse/burst pressure rating (First Revision)	January, 2020	-	Identical under dual numbering
128	IS 8385 : 2005 ISO 2943 Reviewed In : 2020 ISO 2943:1998	Hydraulic fluid power - Filter elements - Verification of material compatibility with fluids (First Revision)	January, 2020	-	Identical under dual numbering
129	IS 8386 : 1977 ISO 3723 Reviewed In : 2020 ISO/DIS 3723	Method of test for end - Load rating of oil hydraulic filter elements	January, 2020	1	Not Equivalent
130	IS 8526 : 1994 ISO 7180 Reviewed In : 2020	Sizes for bores and port threads for pneumatic fluid power cylinders - Recommendations (First Revision)	January, 2020	-	Indigenous
131	IS 8532 : 2013 ISO 3724 :2007 Reviewed In : 2020 ISO 7180 : 1986	Hydraulic fluid power - Filter elements - Determination of resistance to flow fatigue using particulate contaminant (Second Revision)	January, 2020	-	Not Equivalent
132	IS 8801 : 1978	Specification for male stud	September, 2024	3	Indigenous

	Reviewed In : 2024	coupling body for oil - Hydraulic couplings			
133	IS 8802 : 1987 Reviewed In : 2024	Specification for ferrules for oil hydraulic couplings (First Revision)	September, 2024	2	Indigenous
134	IS 8803 : 1987 Reviewed In : 2024	Specification for coupling nuts for oil hydraulic system (First Revision)	September, 2024	1	Indigenous
135	IS 8805 : 2002 Reviewed In : 2024	General requirements for ferrule type couplings used in oil hydraulic systems (First Revision)	September, 2024	-	Indigenous
136	IS 9269 : 2023 ISO 3968 : 2017 ISO 3968 : 2017	Hydraulic fluid power Filters Evaluation of Differential Pressure Versus Flow		-	Identical under dual numbering
137	IS 9387 (Part 1) : 2018 Reviewed In : 2024	Specification for taper male stud elbow body for oil - Hydraulic coupling: Part 1 made from forgings zyxw	September, 2024	-	Indigenous
138	IS 9387 (Part 2) : 2018 Reviewed In : 2024	Specification for taper male stud elbow body for oil - Hydraulic couplings: Part 2 made from bar stock	September, 2024	-	Indigenous
139	IS 9388 (Part 1) : 1979 Reviewed In : 2024	Specification for equal elbow body for oil - Hydraulic couplings: Part 1 made from forgings	September, 2024	-	Indigenous
140	IS 9388 (Part 2) : 2019	Equal elbow body for oil - Hydraulic couplings - Specification: Part 2 made from bar stock (First Revision)	-	-	Indigenous
141	IS 9389 (Part 1) : 2018 Reviewed In : 2024	Specification for - Equal tee - Body for oil - Hydraulic couplings: Part 1 tee body made from forgings	September, 2024	-	Indigenous
142	IS 9389 (Part 2) : 2018 Reviewed In : 2024	Specification for equal tee body for oil - Hydraulic couplings: Part 2 made from bar stock	September, 2024	-	Indigenous
143	IS 9390 : 2018 Reviewed In : 2024	Specification for straight coupling body for oil - Hydraulic couplings	September, 2024	-	Indigenous
144	IS 9391 : 1980 Reviewed In : 2024	Specification for straight coupling assemblies for oil - Hydraulic systems	September, 2024	-	Indigenous
145	IS 9392 : 1980 Reviewed In : 2024	Specification for taper male stud coupling body for oil - Hydraulic couplings	September, 2024	1	Indigenous
146	IS 9411 : 1980 Reviewed In : 2024	Specification for elbow coupling assemblies for oil - Hydraulic systems	September, 2024	-	Indigenous
147	IS 9412 (Part 1) : 1980 Reviewed In : 2018	Specification for male stud elbow body for oil - Hydraulic couplings: Part 1 made from forgings	November, 2018	-	Indigenous
148	IS 9412 (Part 1) : 2024	Male Stud Elbow Body for Oil - Hydraulic Couplings Specification Part 1 Made from Forgings		-	Indigenous
149	IS 9412 (Part 2) : 1980 Reviewed In : 2018	Specification for male stud elbow body for oil - Hydraulic couplings: Part 2 made from bar stock	November, 2018	1	Indigenous
150	IS 9645 : 2005	Hexagon socket pipe plugs (First	January, 2020	-	Indigenous

	Reviewed In : 2020	Revision)			
151	IS 9724 (Part 1) : 1981 Reviewed In : 2024	Specification for taper male stud tee body (Stud Branch) for oil - Hydraulic couplings: Part 1 made from forgings	September, 2024	-	Indigenous
152	IS 9724 (Part 2) : 2024	Taper male stud tee body (Stud branch) for oil hydraulic couplings $i_c^{1/2}$ Specification: Part 2 Made from bar stock (first revision)		-	Indigenous
153	IS 9724 (Part 2) : 1981 Reviewed In : 2024	Specification for taper male stud tee body (Stud Branch) for oil - Hydraulic couplings: Part 2 made from bar stock	September, 2024	-	Indigenous
154	IS 9725 (Part 1) : 1981 Reviewed In : 2024	Specification for male stud tee body (Stud Branch) for oil - Hydraulic couplings: Part 1 made from forgings	September, 2024	1	Indigenous
155	IS 9725 (Part 2) : 2023	Male Stud Tee Body Stud Branch For Oil Hydraulic Couplings Specification Part 2 Made From Bar Stock		-	Indigenous
156	IS 9746 (Part 1) : 2021	Equal Cross Body for Oil Hydraulic Coupling Specification Part 1 Made from Forgings		-	Indigenous
157	IS 9746 (Part 2) : 1981 Reviewed In : 2018	Specification for equal cross body for oil - Hydraulic couplings: Part 2 made from bar stock	November, 2018	1	Indigenous
158	IS 9757 (Part 1) : 2023	Bulkhead Elbow Body for Oil Hydraulic Couplings Specification Part 1 Made from Forgings		-	Indigenous
159	IS 9757 (Part 2) : 1983 Reviewed In : 2018	Specification for bulkhead elbow body for oil - Hydraulic couplings: Part 2 made from bar stock	November, 2018	1	Indigenous
160	IS 9757 (Part 2) : 2024	Bulkhead Elbow Body or Oil Hydraulic Couplings Specification Part 2 Made from Bar Stock		-	Indigenous
161	IS 9767 : 1981 Reviewed In : 2024	Specification for tee coupling assemblies for oil - Hydraulic systems	September, 2024	-	Indigenous
162	IS 9768 : 2024	Bulkhead straight body for oil - Hydraulic Couplings Specification (Second Revision)		-	Indigenous
163	IS 9769 : 1981 Reviewed In : 2024	Specification for bulkhead straight coupling assembly for oil - Hydraulic systems	September, 2024	1	Indigenous
164	IS 9770 : 1981 Reviewed In : 2024	Specification for bulkhead elbow coupling assembly for oil - Hydraulic systems	September, 2024	1	Indigenous

Standards under Development

Projects Approved

Sl. No.	Doc No.	Title
<i>No Records Found</i>		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	PGD 36 (20471)	Fluid Power Systems Installation of Hydraulic Cylinders Guidelines

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
1	PGD 36 (24560) Revision of: IS 15277:2002	Metallic Tube Connections for Fluid Power and General Use Test Methods for Hydraulic Fluid Power Connections

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
1	PGD 36 (17550) Revision of: IS 15277:2002	PROFORMA FOR PURCHASE OF POSITIVE DISPLACEMENT PUMPS AND MOTORS USED IN OIL HYDRAULIC SYSTEMS SPECIFICATION
2	PGD 36 (23662)	Hydraulic Fluid Power Calibration of Automatic Particle Counters for Liquids
3	PGD 36 (23666) Revision of: IS 15277:2002	Fluid Power Systems and Components Vocabulary
4	PGD 36 (24419) Revision of: IS 15277:2002	Pneumatic fluid power Cylindrical Quick-action Couplings for Maximum Working Pressures of 1 MPa 16 MPa and 25 MPa 10 bar 16 bar and 25 bar Plug Connecting Dimensions Specifications Application Guidelines and Testing
5	PGD 36 (24420) Revision of: IS 15277:2002	Hydraulic Fluid Power Dimensions and Requirements of Quick-Action Couplings Part 1 Dimensions and Requirements
6	PGD 36 (24562) Revision of: IS 15277:2002	Hydraulic Fluid Power Quick-Action Couplings Part 2 Test methods
7	PGD 36 (24563) Revision of: IS 15277:2002	Hydraulic Fluid Power Filters Filter Multi-pass Method for Evaluating Filtration Performance of Filter Element
8	PGD 36 (24564) Revision of: IS 15277:2002	Connections for Hydraulic Fluid Power and General Use Ports and Stud Ends with ISO 261 Metric Threads and O-Ring Sealing Part 1 Ports with Truncated Housing for O-Ring Seal

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	PGD 36 (18526) Revision of: IS 9746:1981	Equal Cross Body for Oil Hydraulic Couplings Specification Part 2 Made from Bar Stocks
2	PGD 36 (21665) Revision of: IS/ISO 7425:1989	Hydraulic Fluid Power Cylinders Dimensions and Tolerances of Housings for Elastomer Energized Plastic-Faced Seals Part 2 Rod Seal Housings

Finalized Draft Indian Standards under Print

SI. No.	Doc No.	Title
1	PGD 36 (17530) Revision of: IS 15276:2002	Metallic Tube Connections for Fluid Power And General Use Part 1 24 Cone Connectors

Total Published Standards:159 Total Standards Under development:13

Aspect Wise Report

Product : 88
Code of Practices : 34
Methods of Test : 17
Terminology : 2
Dimensions : 11
System Standard : 0
Safety Standard : 1
Others : 6
Service Specification : 0
Process Specification : 0
Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

Sl. No.	IS No. & Year	Title
1	IS 14645 : 1998 Reviewed In : 2008	Fluid power systems and components - Cylinders - Nominal pressure
2	IS 14740 : 1999 ISO 6358 Reviewed In : 2020 ISO 6358 : 1989	Pneumatic fluid power - Components using compressible fluids - Determination of flow - Rate characteristics
3	IS 7513 : 1974 ISO 1219 Reviewed In : 2018 ISO 1219- 1976	Graphical symbols for fluid power systems
4	IS 8805 (Part 1) : 1978 Reviewed In : 1994	General requirements for ferrule type couplings used in oil-hydraulic system Part 1 General

Annexure-II :List of Indian Product Standards

Sl. No.	IS No. & Year	Title
1	IS 10103 : 1982 Reviewed In : 2020	Method of test for ferrule type couplings used in oil - Hydraulic systems
2	IS 10187 : 2013 ISO 4401: 2005 Reviewed In : 2020 ISO 4401 : 2005	Hydraulic fluid power - Four - Port directional control valves - Mounting surfaces Second Revision
3	IS 10410 : 1983 Reviewed In : 2024	Specification for lock nuts for bulk head coupling assembly for oil - Hydraulic systems
4	IS 10417 : 1983 Reviewed In : 2024	Specification for equal cross coupling assembly for oil - Hydraulic systems
5	IS 10433 (Part 1) : 2023	Male Stud Tee Body Stud Run for Oil-Hydraulic Coupling Specification Part 1 Made from Forgings
6	IS 10433 (Part 2) : 2002 Reviewed In : 2024	Male stud tee body Stud Run for oil - Hydraulic couplings - Specification Part 2 made from bar stock First Revision
7	IS 10453 (Part 1) : 2023	Taper Male Stud Tee Body Stud Run for Oil Hydraulic Couplings Specification Part 1 Made from Forgings
8	IS 10453 (Part 2) : 2023	Taper Male Stud Tee Body Stud Run for Oil Hydraulic Couplings Specification Part 2 Made from Bar Stock
9	IS 10480 : 2024	Stud run tee coupling assemblies for oil hydraulic systems Specification Second Revision
10	IS 10956 : 2023	Welding coupling body for oil hydraulic couplings - Specification
11	IS 10978 : 1984 Reviewed In : 2020	Specification for welding coupling assembly for oil - Hydraulic systems
12	10983 : 2021 ISO 5597 : 2018 IEC 61331-3 : 2014	Hydraulic Fluid Power - Cylinders - Dimensions and Tolerances of Housings for Single-Acting Piston and Rod Seals in Reciprocating Applications Second Revision
13	IS 12096 : 1987 Reviewed In : 2024	Specification for hexagon socket screw plugs with parallel screw threads for fluid power system
14	IS 12116 (Part 1) : 1987 Reviewed In : 2024	Specification for hexagon head taper plugs for oil hydraulic systems Part 1 made from forgings
15	IS 12484 : 1999 Reviewed In : 2020	Cup seal for fluid power applications - Specification First Revision
16	IS 12485 : 1988 Reviewed In : 2020	Specification for metal bonded seals
17	IS 12498 : 1988 Reviewed In : 2024	Method of test for evaluation of performance of air pressure regulators
18	IS 12593 : 2000 ISO 8131 Reviewed In : 2020 ISO	Hydraulic fluid power - Single rod cylinders 16 mpa 160 Bar compact series - Tolerances First Revision

	8131 : 1992	
19	IS 12597 : 1988 Reviewed In : 2024	Recommendation on units for fluid power system
20	IS 12723 : 2020 ISO 6432 : 2015 ISO 6432 : 1985	Pneumatic Fluid Power - Single Rod Cylinders 1 000 kPa 10 bar series bores from 8 mm to 25 mm - Basic and Mounting Dimensions First Revision
21	IS 12738 : 1995 ISO 6430 Reviewed In : 2020 ISO 6430 : 1992	Pneumatic fluid power 7 single rod cylinders 1 000 kPa 10 bar Series With Integral Mountings Bores From 32 Mm To 250 Mm - Mounting Dimensions First Revision
22	IS 13053 : 1991 Reviewed In : 2024	Hydraulic fluid power system commissioning and maintenance of complete hydraulic systems recommendations
23	IS 13085 : 1991 ISO 8136 Reviewed In : 2024 ISO 8136 : 1986	Hydraulic fluid power - Single rod cylinders 160 bar 16 Mpa medium series - Port dimensions
24	IS 13102 : 1991 ISO 8137 Reviewed In : 2024 ISO 8137 : 1986	Hydraulic - Fluid power - Single rod cylinders 250 bar 25 Mpa series - Port dimensions
25	IS 13103 : 2005 ISO 8138 Reviewed In : 2020 ISO 8138:1998	Hydraulic fluid power - Single rod cylinders 16 mpa 160 Bar compact series - Port dimensions First Revision
26	13170 : 2021 ISO 6149-1 : 2019 ISO/IEC 20547-3:2020	Connections for hydraulic fluid power and general use - Ports and stud ends with ISO 261 metric threads and O-ring sealing Part 1 Ports with truncated housing for O-ring seal
27	13170 : 2021 ISO 6149-2 : 2006 Identical	Connections for Hydraulic Fluid Power and General Use - Ports and Stud Ends with ISO 261 Metric Threads and O-Ring Sealing Part 2 Dimensions Design Test Methods and Requirements for Heavy-Duty S Series Stud Ends First Revision
28	13170 : 2021 ISO 6149-3 : 2006 ISO 13397-1:1995	Connections for Hydraulic Fluid Power and General Use Ports and Stud Ends with ISO 261 Metric Threads and O-Ring Sealing Part 3 Dimensions Design Test Methods and Requirements for Light-Duty L Series Stud Ends First Revision
29	IS 13336 : 1992 Reviewed In : 2024	Reducer coupling assemblies for oil hydraulic system - Specification
30	IS 13337 : 1992 Reviewed In : 2024	Straight reducer coupling body for oil hydraulic system - Specification
31	IS 13338 : 1992 Reviewed In : 2024	Hexagonal head screw plugs with shoulder and parallel screw threads - Specification
32	IS 13434 : 2005 ISO 8135 Reviewed In : 2020 ISO 8135:1999	Hydraulic fluid power - Single rod cylinders 16 mpa 160 Bar medium and 25 mpa 250 Bar series - Tolerances First Revision
33	IS 13534 : 2023 ISO 4411 : 2019	Hydraulic Fluid Power Valves Determination of Pressure Differential Flow Characteristics
34	13614 : 2021 ISO 7241 : 2014 ISO 5522:1981	Hydraulic Fluid Power - Dimensions and Requirements of Quick-Action Couplings Part 1 Dimensions and Requirements First Revision
35	IS 13614 (Part 2) : 1993 ISO 7241-2 Reviewed In : 2024 ISO 7241-2 : 1986	Hydraulic fluid power - Quick - Action couplings Part 2 test methods
36	14148 : 2021 ISO 5781 : 2016 ISO/TR 15599:2002	Hydraulic Fluid Power - Pressure-reducing Valves Sequence Valves Unloading Valves Throttle Valves and Check Valves - Mounting Surfaces Second Revision
37	IS 14150 : 2005 ISO 6264 Reviewed In : 2020 ISO	Hydraulic fluid power - Pressure relief valves - Mounting surfaces First Revision

	6264:1998	
38	IS 14235 : 1995 Reviewed In : 2020	Wiper seals used for fluid power application - Specification
39	IS 14236 : 1995 Reviewed In : 2020	Seals for reciprocating applications used in fluid power systems methods of test
40	IS 14237 : 1995 Reviewed In : 2020	U - Type seals with asymmetrical and symmetrical lips used for fluid power application - Specification
41	14423 : 2021 ISO 4399 : 2019 ISO 16954:2015	Fluid Power Systems and Components - Connectors and Associated Components - Nominal Pressures First Revision
42	IS 14528 : 1998 Reviewed In : 2024	Tube end straight reducers for oil - Hydraulic couplings
43	IS 14740 (Part 1) : 2021 ISO 6358-1 : 2013	Pneumatic Fluid Power - Determination of Flow-Rate Characteristics of Components Using Compressible Fluids Part 1 General Rules and Test Methods for Steady-State Flow First Revision
44	IS 14875 : 2000 Reviewed In : 2024 ISO 5782-1 : 1997	Compressed air filters - Evaluation parameters
45	IS 14876 : 2020 ISO 6301-1:2017	Pneumatic Fluid Power Compressed-air lubricators Part 1 Main Characteristics to be Included in Supplier s Literature and Product-marking Requirements First Revision
46	15045 : 2021 ISO 5599-1 : 2001 ISO 19807-1	Pneumatic Fluid Power - Five-Port Directional Control Valves Part 1 Mounting Interface Surfaces without Electrical Connector First Revision
47	15045 : 2021 ISO 5599-2 : 2001 ISO 17937:2015	Pneumatic Fluid Power - Five-Port Directional Control Valves Part 2 Mounting Interface Surfaces with Optional Electrical Connector First Revision
48	IS 15045 (Part 3) : 2001 ISO 5599-3 Reviewed In : 2024 ISO 5599-3:1990	Pneumatic fluid power - Five port directional control valves Part 3 code system for communication of valve functions
49	IS 15097 : 2002 ISO 6150 Reviewed In : 2024 ISO 6150:1988	Pneumatic fluid power - Cylindrical quick - Action couplings for maximum working pressures of 10 bar 16 bar and 25 bar 1 Mpa 1 6 Mpa And 2 5 Mpa - Plug connecting dimensions Specifications application guidelines and testing
50	IS 15276 : 2002 ISO 8434-4 Reviewed In : 2024 ISO 8434-4:1995	Metallic tube connections for fluid power and general use 24 deg cone connectors with o - Ring weld - On nipples
51	IS 15277 : 2002 ISO 8434-5 Reviewed In : 2024 ISO 8434-5:1995	Metallic tube connections for fluid power and general use test methods for threaded hydraulic fluid power connections
52	IS 15332 : 2003 ISO 7285 Reviewed In : 2023 ISO 7285:1995	Pneumatic cylinders for mechanized multiple spot welding
53	IS 15432 : 2003 ISO 7986 Reviewed In : 2023 ISO 7986:1997	Hydraulic fluid power - Sealing devices - Standard test methods to assess the performance of seals used in oil hydraulic reciprocating applications
54	IS 15577 (Part 1) : 2005 ISO 9974-1 Reviewed In : 2020 ISO 9974-1:1996	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
55	IS 15577 (Part 2) : 2005 ISO 9974-2 Reviewed In : 2020 ISO 9974-2:1996	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

56	IS 15577 (Part 3) : 2005 ISO 9974-3 Reviewed In : 2022 ISO 9974-3:1996	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
57	IS 17091 : 2023 ISO 14743 : 2020	Pneumatic Fluid Power Push-in Connectors for Thermoplastic Tubes
58	IS 17215 : 2019	Fluid Power System Hexagon Socket Screw Plugs with Parallel Screw Threads with Elastomeric Sealing Specification
59	IS 8208 : 2020 ISO 3320 : 2013 ISO 3320 : 2013	Fluid Power Systems and Components Cylinder Bores and Piston Rod Diameters and Area Ratios Metric Series Second Revision
60	IS 8801 : 1978 Reviewed In : 2024	Specification for male stud coupling body for oil - Hydraulic couplings
61	IS 8802 : 1987 Reviewed In : 2024	Specification for ferrules for oil hydraulic couplings First Revision
62	IS 8803 : 1987 Reviewed In : 2024	Specification for coupling nuts for oil hydraulic system First Revision
63	IS 8805 : 2002 Reviewed In : 2024	General requirements for ferrule type couplings used in oil hydraulic systems First Revision
64	IS 9387 (Part 1) : 2018 Reviewed In : 2024	Specification for taper male stud elbow body for oil - Hydraulic coupling Part 1 made from forgings zyxw
65	IS 9387 (Part 2) : 2018 Reviewed In : 2024	Specification for taper male stud elbow body for oil - Hydraulic couplings Part 2 made from bar stock
66	IS 9388 (Part 1) : 1979 Reviewed In : 2024	Specification for equal elbow body for oil - Hydraulic couplings Part 1 made from forgings
67	IS 9388 (Part 2) : 2019	Equal elbow body for oil - Hydraulic couplings - Specification Part 2 made from bar stock First Revision
68	IS 9389 (Part 1) : 2018 Reviewed In : 2024	Specification for - Equal tee - Body for oil - Hydraulic couplings Part 1 tee body made from forgings
69	IS 9389 (Part 2) : 2018 Reviewed In : 2024	Specification for equal tee body for oil - Hydraulic couplings Part 2 made from bar stock
70	IS 9390 : 2018 Reviewed In : 2024	Specification for straight coupling body for oil - Hydraulic couplings
71	IS 9391 : 1980 Reviewed In : 2024	Specification for straight coupling assemblies for oil - Hydraulic systems
72	IS 9392 : 1980 Reviewed In : 2024	Specification for taper male stud coupling body for oil - Hydraulic couplings
73	IS 9411 : 1980 Reviewed In : 2024	Specification for elbow coupling assemblies for oil - Hydraulic systems
74	IS 9412 (Part 1) : 2024	Male Stud Elbow Body for Oil - Hydraulic Couplings Specification Part 1 Made from Forgings
75	IS 9412 (Part 2) : 1980 Reviewed In : 2018	Specification for male stud elbow body for oil - Hydraulic couplings Part 2 made from bar stock
76	IS 9645 : 2005 Reviewed In : 2020	Hexagon socket pipe plugs First Revision
77	IS 9724 (Part 1) : 1981 Reviewed In : 2024	Specification for taper male stud tee body Stud Branch for oil - Hydraulic couplings Part 1 made from forgings
78	IS 9724 (Part 2) : 2024	Taper male stud tee body Stud branch for oil hydraulic couplings Specification Part 2 Made from bar stock first revision
79	IS 9725 (Part 1) : 1981 Reviewed In : 2024	Specification for male stud tee body Stud Branch for oil - Hydraulic couplings Part 1 made from forgings

80	IS 9725 (Part 2) : 2023	Male Stud Tee Body Stud Branch For Oil Hydraulic Couplings Specification Part 2 Made From Bar Stock
81	IS 9746 (Part 1) : 2021	Equal Cross Body for Oil Hydraulic Coupling Specification Part 1 Made from Forgings
82	IS 9746 (Part 2) : 1981 Reviewed In : 2018	Specification for equal cross body for oil - Hydraulic couplings Part 2 made from bar stock
83	IS 9757 (Part 1) : 2023	Bulkhead Elbow Body for Oil Hydraulic Couplings Specification Part 1 Made from Forgings
84	IS 9757 (Part 2) : 2024	Bulkhead Elbow Body or Oil Hydraulic Couplings Specification Part 2 Made from Bar Stock
85	IS 9767 : 1981 Reviewed In : 2024	Specification for tee coupling assemblies for oil - Hydraulic systems
86	IS 9768 : 2024	Bulkhead straight body for oil - Hydraulic Couplings Specification Second Revision
87	IS 9769 : 1981 Reviewed In : 2024	Specification for bulkhead straight coupling assembly for oil - Hydraulic systems
88	IS 9770 : 1981 Reviewed In : 2024	Specification for bulkhead elbow coupling assembly for oil - Hydraulic systems